

A-5-X

Roll No.....

Total No. of Questions : 36]

[Total No. of Printed Pages : 16

XARJKUT23

9305-X

SCIENCE

Time : 3 Hours]

[Maximum Marks : 80

General Instructions :-

- This question paper has four Sections A, B, C and D. There are thirty six questions in the question paper and all questions are compulsory.
- Section-A (Q. Nos. 1 to 20) all questions and parts thereof are of 1 mark each. These questions contain multiple choice questions, very short answer type questions and assertions-reason type questions. Answer to these should be given in one word or one sentence.
- Section-B (Q. Nos. 21 to 26) are short answer type questions carrying 2 marks each.
- Section-C (Q. Nos. 27 to 33) carry 3 marks each.

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- (e) Section-D (Q. Nos. 34 to 36) are long answer type questions carrying 5 marks each.
- (f) There is no overall choice. However internal choices have been provided in some questions. A student has to attempt only *one* of the alternatives in such questions.
- (g) Wherever necessary, neat and properly labelled diagrams should be drawn.

Section-A

1. Which type of mirror could be used as a shaving mirror ?
2. Name the phenomenon due to which a swimming pool appears less deep than it really is.
3. Which type of lenses are thinner in the middle than at the edges ?

Or

The power of a lens is +2.5 D, what kind of lens it is and what is its focal length ?

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4. Which of the following colour of white-light has the least wavelength ?

(A) Red

(B) Orange

(C) Violet

(D) Blue

5. Of what substance is the fuse wire made ?

6. Out of an A.C. generator and a D.C. generator, which one uses slip rings ?

7. The Newlands law of octaves for the classification of elements was found to be applicable only upto the element :

(A) Potassium

(B) Calcium

(C) Cobalt

(D) Phosphorus

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(4)

8. What is the common name of methanol ?

Or

Name the product when hydrogen is added to ethene.

9. A covalent bond molecule having a double bond between its atoms is :

(A) Hydrogen

(B) Oxygen

(C) Water

(D) Ammonia

10. Bee stings can be treated with :

(A) Vinegar

(B) Potassium Hydroxide

(C) Sodium Hydrogen Carbonate

(D) Lemon juice

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11. Name *one* organism which can live without oxygen.
12. What is the other name of food pipe ?
13. What are the female sex cells in humans called ?

From question Nos. 14 to 16, two statements (Assertion-A and Reason-R) are given. Select the correct answer from codes A, B, C and D as given below :

(A) Both A and R are true and R is correct explanation of the assertion.

(B) Both A and R are true but R is not the correct explanation of the assertion.

(C) A is true but R is false.

(D) A is false but R is true.

14. Assertion (A) : Spores are unicellular bodies.

Reason (R) : The parent body simply breaks up into smaller pieces on maturation.

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15. Assertion (A) : Natural resources need to be used carefully.

Reason (R) : Resources are finite in supply and human population is tremendously increasing.

16. Assertion (A) : The sex of a child is determined by the mother.

Reason (R) : Humans have two types of chromosomes : XX and XY.

17. Read the following passage and answer any four questions :

All the electrical heating appliances have a heating element which helps in converting most of electrical energy into heat energy.

(i) The elements of electrical heating devices are usually made of :

(A) Tungsten

(B) Bronze

(C) Nichrome

(D) Argon

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(ii) Which of the following characteristics is not suitable for a fuse wire ?

- (A) Thin and short
- (B) Thick and short
- (C) Low melting point
- (D) Higher resistance

(iii) The heat produced by passing an electric current through a fixed resistor is proportional to the square of :

- (A) Resistance of wire
- (B) Current
- (C) Temperature of resistor
- (D) Time for which current is passed

(iv) If the current flowing through a fixed resistor is halved, the heat produced in it will become :

- (A) Double
- (B) One half
- (C) One fourth
- (D) Four times

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(v) An electric fuse works on the :

- (A) Chemical effect of current
- (B) Magnetic effect of current
- (C) Lighting effect of current
- (D) Heating effect of current ✓

18. Read the following passage and answer any *four* questions :

An acid is a substance which dissociates on dissolving in water. To test for acids, indicators are used.

(i) The indicators which turn red in acid solution are :

- (A) Turmeric and litmus
- (B) Phenolphthalein and litmus
- (C) Litmus and methyl orange ✓
- (D) Phenolphthalein and methyl orange

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- (ii) The property which is common between vinegar and curd is that they :
- (A) have sweet taste
 - (B) are tasteless
 - (C) have bitter taste
 - (D) have sour taste
- (iii) The indicator which produces a pink colour in an alkaline solution is :
- (A) Methyl orange
 - (B) Turmeric powder
 - (C) Phenolphthalein
 - (D) Litmus paper
- (iv) One of the following is not an organic acid. This is :
- (A) Ethanoic acid
 - (B) Formic acid
 - (C) Citric acid
 - (D) Carbonic acid

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- (v) The property which is not shown by acid is :
- (A) they have sour taste (B) they feel soapy
(C) they turn litmus red (D) their pH is < 7

19. Read the following passage and answer any *four* questions :

Both plants and animals react (respond) to various stimuli around them but the method is not similar in plants and animals. The control and coordination in higher animals takes place through nervous system.

- (i) Which of the following helps in maintaining posture and balance of the human body.?

- (A) Cerebellum (B) Cerebrum
(C) Medulla (D) Pons

- (ii) The number of pairs of nerves which arise from the spinal cord is :

- (A) 21 (B) 41
(C) 31 (D) 51

- (iii) The spinal cord originates from :

- (A) Cerebrum (B) Cerebellum
(C) Medulla (D) Pons

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- (iv) The involuntary actions in the body are controlled by :
- (A) Medulla in forebrain (B) Medulla in hindbrain ✓
(C) Medulla in spinal cord (D) Medulla in mid brain ✓
- (v) Cerebellum, medulla and pons are the parts of :
- (A) midbrain (B) hindbrain ✓
(C) forebrain (D) spinal cord

20. Read the following passage and answer any four questions :

Food contains energy and this energy can be transferred from one organism to other through food chains :

- (i) Which of the following constitutes a food chain ?
- (A) Grass, Wheat and Mango (B) Goat, Cow and Elephant
(C) Grass, Goat and Human (D) Grass, Fish and Goat
- (ii) In a food chain, the initial organism is usually :
- (A) Photosynthetic ✓ (B) Herbivore
(C) Saprophytic (D) Parasitic
- (iii) In a food chain, the third trophic level is always occupied by :
- (A) Carnivores ✓ (B) Decomposers
(C) Herbivores (D) Producers

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(iv) One of the following is not a consumer this one is :

- (A) Giraffe (B) Antelope
(C) Algae (D) Alligator

(v) In the food chain comprising of a snake, grass, insect and frog, the secondary consumer is :

- (A) Insect (B) Snake
(C) Frog (D) Grass

Section-B

21. There are two types of light sensitive cells in the human eye :

- (i) Where are they found ?
(ii) What is each type called ?

Or

Make the diagram to explain refraction and dispersion.

22. Why do stars twinkle on a clear night ?

23. Two resistors with resistances 2Ω and 4Ω respectively are to be connected to a battery of e.m.f. 6 V so as to obtain maximum current flowing. Find the current in that case.

Or

Find the energy transferred by a 100 W electric bulb in 1 minute.

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24. What is Magnetic field ? State any *two* properties of magnetic field lines.
25. What do you understand by endothermic reaction ? Give *one* example.
26. What is Corrosion ? Name any *two* metals which do not corrode easily.

Section-C

27. Why are fossil fuels classified as non-renewable sources of energy ?

Or

What is Biomass ? Give *three* examples of it.

28. What is decomposition reaction ? Give *two* examples of decomposition reaction.
29. How does the size of atom generally vary in going from left to right in a period of the periodic table ? Why does it vary this way ?
30. What is the difference between a mineral and an ore ? Name *one* ore of sodium. Write the chemical formula of sodium compound present in this ore.
31. Explain Vegetative propagation with the help of *two* examples. List *two* advantages of it.

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32. What is meant by acquired and inherited traits ? Explain with *one* example each.
33. Why should we conserve forests and wildlife ?

Section-D

34. (a) Construct a ray diagram to illustrate the formation of a virtual image using :
- (i) a converging lens
 - (ii) a diverging lens
- (b) What is the difference between the two images formed above ?

Or

- (a) State *three* characteristics of the image formed by a convex mirror.
- (b) An object 1 cm tall is placed 30 cm in front of a convex mirror of focal length 20 cm. Find the size and position of the image formed by the convex mirror.

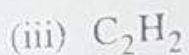
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35. (a) Give the molecular formula of one homologue of each of the following :



(b) What is the difference in the molecular mass of any *two* adjacent homologues ?

(c) By how many carbon atoms and hydrogen atoms do any *two* adjacent homologues differ ?

Or

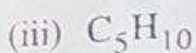
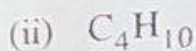
(a) Explain the term 'isomers'. Give an example of isomers.

(b) Write the following :

(i) Structural formula

(ii) Electron dot structure of any *one* isomer of C_7H_{16} .

(c) How many isomers of the following hydrocarbons are possible ?



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36. (a) Define Nutrition. Why is nutrition necessary for an organism ?
- (b) What are different modes of nutrition ? Explain each mode of nutrition with example.

Or

- (a) Name the various organs of the human excretory system and draw the diagram.
- (b) What is the function of excretory system in humans ?

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Roll No. [REDACTED]

Total No. of Questions : 40]

[Total No. of Printed Pages : 15

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MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 80

Section-A

1 each

1. The number 3 is :

(A) an even number

(B) a composite number

(C) a prime number

(D) None of these

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(2)

2. Zeroes of the quadratic polynomial $x^2 - 2x - 8$ are :

(A) 2, -4

(B) 2, 4

(C) -2, -4

(D) None of these

3. 8th term of an A.P. 10, 7, 4, is :

(A) -11

(B) -10

(C) -8

(D) None of these

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4. Distance between the points (4, 3) and (0, 0) is :

(A) $\sqrt{7}$

(B) 5

(C) 12

(D) None of these

5. If $6x + 3y = C - 3$ and $12x + Cy = C$, has infinitely many solutions, then C is equal to :

(A) 6

(B) 5

(C) 4

(D) None of these

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6. Circumference of a semi-circle with radius 'r' is :

(A) $2\pi r$

(B) πr

(C) πr^2

(D) None of these

7. How many parallel tangents can a circle have ?

(A) 2

(B) 1

(C) Infinite

(D) None of these

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8. A card is drawn from a pack of 52 cards. What is the probability of getting a heart ?

(A) $\frac{1}{26}$

(B) $\frac{1}{2}$

(C) $\frac{1}{4}$

(D) None of these

9. $1 - \cos^2 30^\circ$ is equal to :

(A) $-\sin^2 30^\circ$

(B) $\sin^2 30^\circ$

(C) $-\sin^2 60^\circ$

(D) None of these

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10. The product of roots of the quadratic equation $\sqrt{5}x^2 + 3x - 5 = 0$ is :

(A) $\sqrt{5}$

(B) $\frac{1}{\sqrt{5}}$

(C) $-\sqrt{5}$

✓(D) None of these

11. H.C.F. of two prime numbers is (Fill in the blank)

12. The sum of first n natural numbers is $\frac{n(n+1)}{2}$. (True/False)

Or

The next term of the A.P. $\sqrt{27}, \sqrt{48}, \sqrt{75}, \dots$ is $\sqrt{108}$.

(True/False)

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13. The value of $\cos \theta$ increases as θ increases. (True/False)

14. All triangles are similar. (isosceles, equilateral)

15. The common point of a tangent to a circle and the circle is called (Fill in the blank)

16. Define Distance Formula.

Or

Define Ordinate of a Point.

17. State Basic Proportionality Theorem.

18. Define Angle of Elevation.

19. What is the probability of sure event ?

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20. Write the formula for total surface area of hemisphere.

Section-B

2 each

21. Find the H.C.F. of 510 and 92.

22. A drinking glass is in the shape of a frustum of a cone of height 14 cm. The diameters of its two circular ends are 4 cm and 2 cm.

Find the capacity of the glass.

23. Solve the pair of linear equations :

$$x + y = 5$$

$$2x - 3y = 4$$

by elimination method.

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24. Given $15 \cot A = 8$, find $\sin A$ and $\sec A$.

Or

Evaluate :

$$2 \tan^2 45^\circ + \cos^2 30^\circ - \sin^2 60^\circ$$

25. A bag contains 3 red balls and 5 black balls. A ball is drawn at random from the bag. What is the probability that the ball drawn is :

(i) red ?

(ii) not red ?

26. A class teacher has the following absentee record of 40 students of a class for the whole term. Find the mean number of days a student was absent :

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Number of Days	Number of Students
0-6	11
6-10	10
10-14	7
14-20	4
20-28	4
28-38	3
38-40	1

Section-C

3 each

27. Obtain all other zeroes of $3x^4 + 6x^3 - 2x^2 - 10x - 5$, if two of its zeroes are $\sqrt{\frac{5}{3}}$ and $-\sqrt{\frac{5}{3}}$.

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(11)

Or

Find a quadratic polynomial, the sum and product of whose zeroes are $\sqrt{2}$ and $\frac{1}{3}$, respectively.

28. A fraction becomes $\frac{1}{3}$ when 1 is subtracted from the numerator and it becomes $\frac{1}{4}$ when 8 is added to its denominator. Find the fraction.
29. Find the roots of the quadratic equation $2x^2 + x - 6 = 0$ by factorization.
30. Find the 31st term of an A.P. whose 11th term is 38 and the 16th term is 73.

Or

Find the sum of the first 15 multiples of 8.

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31. Write all the other trigonometric ratios of $\angle A$ in terms of $\sec A$.
32. Prove that the lengths of tangents drawn from an external point to a circle are equal.

Or

The length of a tangent from a point A at distance 5 cm from the centre of the circle is 4 cm. Find the radius of the circle.

33. Find the area of a quadrant of a circle whose circumference is 22 cm.
34. How many silver coins, 1.75 cm in diameter and of thickness 2 mm, must be melted to form a cuboid of dimensions 5.5 cm \times 10 cm \times 3.5 cm ?

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Section-D

4 each

35. A train travels 360 km at a uniform speed. If the speed had been 5 km/h more, it would have taken 1 hour less for the same journey. Find the speed of the train.

Or

Find the roots of $4x^2 + 3x + 5 = 0$ by the method of completing the square.

36. The angles of elevation of the top of a tower from two points at a distance of 4 m and 9 m from the base of the tower and in the same straight line with it are complementary. Prove that the height of the tower is 6 m.

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37. Find the area of the quadrilateral whose vertices taken in order, are
 $(-4, -2)$, $(-3, -5)$, $(3, -2)$ and $(2, 3)$.

Or

If A and B are $(-2, -2)$ and $(2, -4)$, respectively, find the coordinates of P such that $AP = \frac{3}{7}AB$ and P lies on the line segment AB.

38. Prove that the line joining the mid-points of any two sides of a triangle is parallel to the third side.

Or

In an equilateral triangle, prove that three times the square of one side is equal to four times the square of one of its altitudes.

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39. Draw a pair of tangents to a circle of radius 5 cm which are inclined to each other at an angle of 60° .
40. If the median of the distribution given below is 28.5, find the values of x and y :

Class Interval	Frequency
0-10	
10-20	x
20-30	20
30-40	15
40-50	y
50-60	5
Total	60

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Roll No.

Total No. of Questions : 17]

[Total No. of Printed Pages : 8

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SOCIAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Objective Type Questions)

1 each

1. Do as directed :

(i) Napoleonic code was introduced in the year of :

✓ (A) 1809

(B) 1807

(C) 1805

✗ (D) 1804

(Choose the correct option)

(ii) Which person is known as the 'Frontier Gandhi' ?

(A) Feroz Gandhi

(B) Nehru

✓ (C) Khan Abdul Ghaffar Khan

(D) S.C. Bose

(Choose the correct option)

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(ix) For which is Raniganj famous for :

- (A) Atomic energy (B) Iron ore
(C) Coal reserve (D) Oil field

(Choose the correct option)

(x) The High Court of^{J&K}..... will function as the High Court for both Jammu-Kashmir and Ladakh. (Fill in the blank)

(xi) SAIL is a public sector industry. (True/False)

(xii) is the electronic capital of India. (Fill in the blank)

(xiii) Heavy industries are :

- (A) Capital intensive
(B) Labour intensive
(C) Land intensive
(D) All of these

(Choose the correct option)

(xiv) Expected outcome of democracy is :

- (A) Democracy
(B) Dictatorship
(C) Both (A) and (B)
(D) None of these

(Choose the correct option)

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(xv) Democracies have successfully eliminated
(Fill in the blank)

(xvi) There are major craft clusters in Jammu and Kashmir.

(A) 178

(B) 179

(C) 180

(D) 181

(Choose the correct option)

(xvii) Which Article of Indian Constitution empowered State Legislature to define the status of permanent residents of the state ?

(A) 35-A

(B) 36-A

(C) 370-A

(D) 308-A

(Choose the correct option)

(xviii) What is the full form of SDRF ?

(xix) Wular Lake is situated in (Fill in the blank)

(xx) Kashmir falls in which of the seismic zones ?

(A) I

(B) IV and V

(C) II

(D) III

(Choose the correct option)

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Section-B

(Short Answer Type Questions)

3 each

Note :- Answer to these questions should be 40 to 60 words each.

2. Why was Civil Disobedience launched ?

3. Explain the three types of movements or flows within international economic exchange. Find one example of each type of flow which involved India and Indians and write a short account of it.

Or

Why did some industrialists in nineteenth century Europe prefer hand labour over machines ?

4. Explain the consequences of Great Depression.

Or

5. The East India Company appointed gomasthas to supervise weavers in India. Explain.

6. Describe the important features of rice cultivation.

7. Describe the four different types of coal found in India.

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7. ✓ A few subjects in various lists of Indian Constitution are given here. Group them under the union, state and concurrent lists as provided in the table below :

- (i) Defence^①
- (ii) Police^①
- (iii) Agriculture^②
- (iv) Education^②
- (v) Banking
- (vi) Forests^③
- (vii) Communications
- (viii) Trade^③
- (ix) Marriages ✓ :

Union list

State list

Concurrent list

8. ✗ Explain the challenges faced by the political parties.

9. ✓ Mention different aspects of life in which woman are discriminated or disadvantaged in India.

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10. What should be the approach to help a fire burn patient ?
11. Write a brief note on micro, small and medium scale industries in employment generation in J & K.

Section-C

(Long Answer Type Questions)

5 each

Note :- Answer to these questions should be **100 to 130** words each.

12. Briefly trace the process of German unification.
13. Name the soils found in India. Discuss any *one* in detail.
14. What are the different forms of power sharing in modern democracies ?
Give an example of each of these.
15. How does horticulture contribute to the state economy ?
16. Read the extract and answer the questions :

The lives and feelings of women began to be written in intense ways. (Liberal husbands and fathers began educating their womenfolk at home.) women school were also set up, but not all families were liberal. Conservative Hindus believed that a literate girl would be windowed and Muslims feared that women would be corrupted by reading Urdu romances. (Many women writers came forward in favour of educating women by highlighting the experiences of

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woman.) about how women were imprisoned at home, treated unjustly and kept in ignorance. (Tarabai Shinde and Ramabai wrote with passionate anger about the miserable lives of upper caste Hindu women especially widows.)

Questions :

- (a) How did liberal husbands and fathers help their women ? 1
- (b) What was the thinking of conservative Indians ? 2
- (c) Name some women writers other than in the extract who have helped women education. 2

Section-D

(Map Based Question)

17. (a) In an outline map of India locate and label the following seaports (any three) :
- (i) Deendayal Port
 - (ii) Mangalore
 - (iii) Mormugao
 - (iv) Mumbai
 - (v) Kochchi 3
- (b) On the outline map of the world shade and label any two non-federal countries. 2

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A-4-Z



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A-I-Y

Roll No. [Redacted]

Total No. of Questions : 16]

[Total No. of Printed Pages : 15

XARJKUT23

9301-Y

URDU

Time : 3 Hours]

[Maximum Marks : 80

حصہ ” الف “

۱۔ درج ذیل عبارت کو غور سے پڑھنے کے بعد اس کے آخر پر دی گئی خالی جگہوں

۵×۱=۵

کو اسی سے چن کر مناسب الفاظ سے پُر کیجئے۔

رضیہ سلطان باقاعدہ دربار لگاتی تھی۔ اس نے برابری اور

بھائی چارے کو عام کیا۔ رضیہ سلطان نے حکومت کے اختیارات کو

چالیس امیروں میں بانٹا جس سے وہ ملکی معاملات میں مشورہ کرتی تھی۔

اس نے ”میر آخور“ کا سب سے بڑا عہدہ ایک حبشی غلام ”یا قوت“

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(2)

کو دیا کیونکہ وہ ایمان دار اور جفاکش تھا۔ یہ اہم عہدہ اب تک صرف
ٹرک امیروں کو ملتا تھا۔ یہ بات ترک امیروں کو پسند نہیں آئی۔ انھوں
نے رضیہ کو تخت سے اتارنے کی سازش کی۔

(i) رضیہ سلطان..... دربار لگاتی تھی۔

(ii) اس نے حکومت کے اختیارات کو..... امیروں میں بانٹا۔

(iii) ”میر آخور“ کا بڑا عہدہ..... کو دیا گیا۔

(iv) رضیہ سلطان نے برابری اور..... کو عام کیا۔

(v) رضیہ سلطان کو تخت سے اتارنے کی سازش..... نے کی۔

۲۔ درج ذیل شعری جز کو غور سے پڑھئے اور آخر پر پوچھے گئے سوالات کے

جوابات میں سے درست جواب چن لیجئے۔

بنی نوع انساں کا غم خوار آیا

وہ تخلیق عالم کا شہکار آیا

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(3)

وہ نبیوں کا سرتاج سردار آیا

خوش اندام آیا خوش اطوار آیا

تو آیا تیرے آنے کی آرزو تھی

نگاہوں کو بس تیری ہی جستجو تھی

(i) بنی نوع انسان کا غم خوار بن کر کون آیا؟

(الف) ابو بکرؓ۔

(ب) محمد ﷺ۔

(ج) عمر فاروقؓ۔

(د) علیؓ۔

(ii) نبیوں کا سرتاج کون ہے؟

(الف) حضرت محمدؐ۔

(ب) یونسؑ۔

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(4)

(ج) ابراہیم۔

(د) یعقوب۔

(iii) ہمیں محمدؐ کے آنے کی کیا تھی؟

(الف) تمنا۔

(ب) آرزو۔

(ج) جستجو۔

(د) چاہت۔

(iv) یہ نعت کس کی لکھی ہوئی ہے؟

(الف) نظیر۔

(ب) حالی۔

(ج) اقبال۔

(د) رسا جاودانی۔

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(5)

(۷) یہ شعری جز کس نعت سے لیا گیا ہے؟

(الف) رحمت دو عالم۔

(ب) بنی نوع انسان کا غم خوار آیا۔

(ج) شان لولاک۔

(د) سرکار دو عالم۔

۳۔ دی گئی عبارت کو غور سے پڑھنے کے بعد آخر پر دیئے گئے سوالات کے مختصر

جواب لکھئے۔

۵ × ۱ = ۵

بارش کا پانی قدرتی طور پر صاف ستھرا اور پینے کے قابل ہوتا

ہے۔ جب وہ زمین پر بہتا ہے تو نالوں کی شکل میں بہتا ہوا ندیوں اور

تالابوں میں جمع ہو جاتا ہے۔ اس پانی میں مٹی کے ذرات، نمکیات

اور دوسرے مادے بھی شامل ہو جاتے ہیں۔ اس وجہ سے یہ پانی گدلا

ہو جاتا ہے اور پھپش، قبض، پیٹ کا درد اور ہیضہ جیسی بیماریاں پھیل جاتی

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(6)

ہیں۔ آلودہ پانی کو پینے کے قابل بنانے کے لئے اسے جوش دے کر
ٹھنڈا کریں اور چھان کر کسی صاف برتن میں رکھیں۔

(i) بارش کا پانی قدرتی طور پر کیسا ہوتا ہے؟

(ii) بارش کا پانی جب زمین پر گرتا ہے تو کہاں جاتا ہے؟

(iii) اس پانی میں کون سی چیزیں شامل ہو جاتی ہیں۔

(iv) آلودہ پانی پینے سے کیا ہو جاتا ہے؟

(v) آلودہ پانی کو پینے کے قابل کیسے بناتے ہیں؟

حصہ ”ب“

۴۔ (الف) درج ذیل الفاظ کو جملوں میں اس طرح استعمال کیجئے کہ ان کی

تذکیر و تانیث واضح ہو جائے۔

(i) کتاب۔

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(7)

(ii) دنیا۔

(iii) چاند۔

(ب) درج ذیل الفاظ کو جملوں میں اس طرح استعمال کیجئے کہ ان کا

واحد یا جمع ہونا واضح ہو جائے۔

(i) عورتیں۔

(ii) دن۔

۵۔ دیئے گئے حروف میں سے صرف دو کی تعریف کیجئے اور مثالیں بھی دیجئے۔

(i) حروف جار۔

(ii) حروف اضافت۔

(iii) حروف عطف۔

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(8)

۵×۱=۵

۶۔ ہدایات کے مطابق جواب لکھئے۔

(الف) ”اسلم کھیلتا ہے“

اس جملے میں لفظ ”اسلم“ کیا ہے؟

(i) صفت۔

(ii) فاعل۔

(iii) مفعول۔

(iv) فعل۔

(ب) ”تاج محل بہت خوبصورت ہے“

اس جملے میں لفظ ”خوبصورت“ کیا ہے؟

(i) فاعل۔

(ii) صفت۔

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(9)

(iii) فعل -

(iv) مفعول -

(ج) ”کریم نے اکبر کو مارا“

اس جملے میں لفظ ”اکبر“ کیا ہے؟

(i) صفت -

(ii) فاعل -

(iii) مفعول -

(iv) فعل -

(د) ”چادر میلی ہے“

اس جملے میں لفظ ”میلی“ کیا ہے؟

(i) فاعل -

(ii) صفت -

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(10)

(iii) مفعول۔

(iv) ضمیر۔

(v) ”درزی کپڑے سیتا ہے“

اس جملے میں لفظ ”درزی“ کیا ہے؟

(i) صفت۔

(ii) فاعل۔

(iii) مفعول۔

(iv) فعل۔

۲۔ درج ذیل محاورات میں سے صرف دو کو جملوں میں استعمال کیجئے۔

(i) آفت کا پر کالا۔

(ii) آگ بگولہ ہونا۔

(iii) پالا پڑنا۔

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۸۔ کسی ایک جملے کی ترکیب نحوی کیجئے اور جملے کا نام بھی لکھئے۔

(i) بشیر نادان ہے۔

(ii) حامد نے روٹی کھائی۔

حصہ ”ج“

۹۔ درج ذیل اصناف میں سے کسی ایک صنف پر نوٹ لکھئے۔

(i) داستان۔

(ii) ڈراما۔

(iii) قصیدہ۔

(iv) غزل۔

۱۰۔ درج ذیل اسباق میں سے کسی ایک کا خلاصہ لکھئے۔

(i) سیر چوتھے درویش کی۔



(12)

(ii) حالی۔

(iii) عبرت۔

۱۱۔ درج ذیل اشعار میں سے صرف تین اشعار کی تشریح کیجئے اور شاعر کا حوالہ بھی دیجئے۔

۳×۲=۶

(i) پہنچا جو آپ کو تو میں پہنچا خدا تیں

معلوم اب ہوا کہ بہت میں بھی دور تھا۔

(ii) نہ گور سکندر نہ ہے قبر دارا

مٹے نامیوں کے نشاں کیسے

(iii) آگے آتی تھی حال دل پہ ہنسی

اب کسی بات پر نہیں آتی

(iv) نہ تھا میں معتقد اعجازِ مے کا

بڑی مشکل سے منوایا گیا ہوں

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(v) ہم نکل سکتے بھی تو کیوں کر حصارِ ذات سے

صرف دیواریں ہی دیواریں تھیں دروازہ نہ تھا

(vi) پرچم امن لئے پھرتے ہیں شہروں شہروں

آستنیوں میں چھپائے ہوئے خنجر کتنے

۵

۱۲۔ صرف دو سوالوں کے جواب لکھئے۔

(i) ملک صادق کون تھا اور شہزادے کے ساتھ ان کا کیا رشتہ تھا؟

(ii) لوگوں کو دھوکہ دینے کے لئے جن کون کون سی چیزیں اپنے پاس رکھتی تھی؟

(iii) پنڈت چندر دھرا اپنے پیشے سے کیوں بیزار تھے؟

(iv) خوشامدی میں کیا کیا عیب ہوتے ہیں؟

۵

۱۳۔ صرف دو سوالوں کے جواب لکھئے۔

(i) اس قصیدے کو شاعر نے ”شہر آشوب“ کیوں قرار دیا ہے؟

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(14)

(ii) مفلسی آدمی کو کس کس طرح سے ستاتی ہے؟

(iii) شاعر کو ہر بات میں کلفت کیوں نظر آتی ہے؟

(iv) وحدت میں کثرت سے کیا مراد ہے؟

۱۴۔ درج ذیل ادباء اور شعراء میں سے کسی ایک کے حالات زندگی تحریر کیجئے۔

(i) میراں

(ii) ڈپٹی نذیر احمد

(iii) آتش

(iv) شاد عظیم آبادی

حصہ ”د“

۱۵۔ اپنے چھوٹے بھائی کے نام خط لکھئے جس میں اسے پڑھنے کے ساتھ ساتھ کھیل

کو د میں حصہ لینے کی نصیحت کی گئی ہو۔

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(15)

(یا)

اپنے اسکول کے سربراہ کے نام ڈسچارج سرٹیفکیٹ اجرا کرنے کے لئے درخواست لکھئے۔

۱۶۔ دیئے گئے عنوانات میں سے کسی ایک پر دو سو (۲۰۰) الفاظ پر مشتمل مضمون لکھئے۔

۸

- (i) کھیلوں کی اہمیت۔
- (ii) کووڈ-۱۹ (Covid 19) کی تباہ کاریاں۔
- (iii) وقت کی پابندی۔

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Total No. of Questions : 17]

[Total No. of Printed Pages : 15

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ENGLISH

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Reading Comprehension)

1. Read the extract from the poem and answer the questions that follow :

My feet are cold with water seeping through my shoes.

My eyes are heavy with sleep, or is it fever ?

The ground is very slippery, there is no place to stand.

The mind is exhausted, look for some spot to rest.

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Questions :

- (i) What has made the speaker's feet cold ?
- (ii) What does his mind look for ?
- (iii) There is a rhyme scheme in the poem. (True/False)
- (iv) The feet of the poet are wet with water through his shoes. (Fill in the blank)
- (v) Show one image created by the poet in the above lines. $1 \times 5 = 5$

2. Read the following passage and answer the questions that follow :

We who were outlaws not so long ago, have today been given the rare privilege to be host to the nations of the world on our own soil.

We thank all our distinguished international guests for having come to take possession with the people of our country of what is, after all, a common victory for justice, for peace, for human dignity.

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We have at last, achieved our political emancipation. We pledge ourselves to liberate all our people from the continuous bondage of poverty, deprivation, suffering, gender and other discrimination."

Questions :

- (i) Who were called outlaws in South Africa ?
- (ii) What pledge did the new government of South Africa take ?
- (iii) Give the antonym of 'Victory'.
- (iv) The establishment of a democratic rule in South Africa has been called for justice, peace and human dignity.

(Fill in the blank)

- (v) Under the policy of apartheid all citizens were equal.

(True/False)

1×5=5

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3. Read the following passage and answer the questions that follow :

Crops plants and animals created for human consumption using latest molecular biology techniques can generally be termed GM foods or GMO (Genetically Modified Organism). It has been possible to infuse the desired genetic traits such as disease and/or pest resistance and cold/drought tolerance into important crops to get better yield and nutritional content.

Similarly, GM technology is employed on farm animals to improve milk yield and meat quality. Traditionally, the enhancement of desired traits has been undertaken through breeding of plants and animals. The potential benefit arising from the use of GM technology in agriculture is increased food production, ensuring food security for the abounding millions.

Questions :

(i) What does GMO stand for ?

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(ii) Why is GM technology employed on farm animals ?

(iii) The potential benefit that arises from the use of GM technology in agriculture is food production.

(Fill in the blank)

(iv) GM plants cannot resist the diseases caused by viruses, fungi etc.

(True/False)

(v) Give the suitable title to the passage.

1×5=5

Section-B

(Grammar)

4. Insert appropriate modals (given below) in the following sentences :

should, would, may, can

(i) I told him that I come.

(ii) I lift this box.

1×2=2

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5. Insert suitable articles in the blank :

(i) He is boy who beat my son.

(ii) I have got idea. 1×2=2

6. Join the following sentences by changing one of them into relative clause :

(i) Manzoor works for a company. It makes shoes.

(ii) I heard some news. The news astonished me.

(iii) Arif is always idle. He was punished. 1×3=3

7. Change the narration :

(i) She asked me if I knew her.

(ii) The teacher said, "The sun is a star."

(iii) He said, "Maira is singing." 1×3=3

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8. Use appropriate articles, tenses, spellings etc. wherever necessary to edit the passage given below :

Mrs. Bannet came to know of her new neighbour.

✓ Mrs. Bennet have three daughters and (1)

is very serious about her marriage. (2)

She want to get them married as soon (3)

as possible. She comes to knowing that a (4)

rich young man, named Mr. Bingley have (5)

come in the neighbourhood. 1×5=5

Section-C

(Writing Skills)

9. Complete the dialogue given below :

Bookseller : Do you (a) ?

Sufia : No, I do not want to buy a book.

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Bookseller : What (b) them ?

Sufia : I want only to change this book.

Bookseller : When did (c) ?

Sufia : (d) yesterday evening.

Bookseller : Who (e) to you ?

Sufia : Your salesman (f) $\frac{1}{2} \times 6 = 3$

10. Your school is organising a debate on 'Pollution and its Hazards'.

Being the incharge of the school debating society, write a notice

informing the students about the same and inviting the names of the

students interested to participate. Put the notice in the box. 3

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11. Mr. M.A. Khan, Principal, Crescent Public School, asks his assistant to draft a message for the Vice Principal and the class teachers of classes X, XI, XII to attend a meeting to discuss the planning for two day excursion to Pahalgam during Summer Vacation. Draft the message.

4

12. Do any *one* of the following :

(i) You are Afzal, the librarian of ABC Public School, Srinagar.

Write a letter to 'The Unique Books Co., New Delhi', complaining about the poor quality of books supplied to your library.

(ii) Write a letter to your father inviting him on the Annual Function of your school.

5

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A-0-Z

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13. Do any *one* of the following (80–100 words) :

(i) Using the ideas given below, write a paragraph on 'The Importance of Discipline in Life.'

- *Discipline* : Basis of whole universe, in nature is governed by some laws for harmony.
- *Why needed* : for the happiness and welfare of all, strength of an individual as well as of a nation, helps in personal and national prosperity and growth.

(ii) Arif has to take part in a speech competition on the topic 'Stop Crowding Pahalgam'. Using the hints given below, write a speech.

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- Deterioration in civic amenities. Pollution levels increasing everywhere. Overcrowding in streets, buses, markets. Suggest some practical solutions.

5

Section-D

(Literature)

14. Read the extracts of the poems carefully and do any *three* of the following (20-30 words) :

- (i) Lord! You are my hope and trust,

Lead me to the way of truth.

How long shall I dwell in ignorance!

Pour me the nectar of knowledge.

Lend ear to my wailing and pleas,

cure me of ills and pains;

- Identify the metaphors used in the above lines.

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(ii) Now is the globe shrunk tight

Round the mouse's dulled wintering heart.

Weasel and crow, as if moulded in brass.

Move through an outer darkness.

- 'Weasel and crow, as if moulded in brass.' Explain briefly.

(iii) I looked again at her, worn, pale,

As a late winter's moon and felt that old

familiar ache, my childhood fear, but all

I said was, see you soon, Amma.

- What childhood fears do you think the poet is referring to in the above lines ?

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(iv) Mouth like a fireplace, chimney for a nose

And realio, trulio daggers on his toes.

Belinda was as brave as a barrel full of bears,

And Ink and Blink chased lions down the stairs,

Mustard was as brave as a tiger in a rage.

- Pick out the similes from the above lines.

(v) So shall I take

My last dear fuel of life to heap on my soul

And kindle my will to a flame that shall consume

Their dross of indifference, and take the toll

Of their insults in punishments ? - I will not -

- 'Take the toll of their insults in punishments.' Elaborate. $2 \times 3 = 6$

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15. Do any *four* of the following (40–60 words) :

(i) What was the curious episode that took place in the clergyman's study/house ?

(ii) Anny says teachers are most unpredictable. Is Mr. Kessing unpredictable ? How ?

(iii) “ ‘I never want this to happen again’ he told his father. ‘Ever’.”
Who says it and why ?

(iv) What condition does Shylock put forth if the debt is not paid in time ?

(v) Why is May 10 ‘autumn day’ in South Africa ?

(vi) Why does Mrs. Bennet think that Mrs. Long is selfish ? $3 \times 4 = 12$

16. Do any *one* of the following (80–100 words) :

(i) Give a detailed description of the second quarrel in the play ‘The Proposal’ ?

(ii) Discuss the theme of the play ‘The Proposal’.

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17. Do any *one* of the following (80–100 words) :

- (i) Draw a character-sketch of Gerasim.
- (ii) What effect did the collapse of Rama Rao's business have on him and his family ?
- (iii) Who was Bishamber ? Why did Bholi's parents accept his marriage proposal ?

6

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Roll No.....

Total No. of Questions : 18]

[Total No. of Printed Pages : 8

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24705-X

SCIENCE

(Physics, Chemistry & Life Science)

Time : 3 Hours]

[Maximum Marks : 84

Section - I

(PHYSICS)

(Long Answer Type Questions)

1. State Ohm's law and describe a method to find the resistance of a coil by using a voltmeter and an ammeter. Also draw the circuit diagram.

Or

What is the resultant resistance when a number of resistances are connected in :

(a) Series

(b) Parallel

6

Turn Over

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(Short Answer Type Questions)

4 each

2. Draw the well labelled diagram of an eye of human being.

Or

What are common defects of vision ? Name them.

3. Write the uses of concave and convex mirrors.

Or

Write the sign conventions used for reflection by mirror.

4. Draw the ray diagram and find the nature, position and relative size of image formed by a concave lens at :

- (i) infinity
- (ii) between optical centre and infinity

Or

An object is placed at a distance of 10 cm from a convex mirror of focal length 15 cm. Find the position and nature of the image formed.

(Very Short Answer Type Questions)

2 each

5. (i) Write the *two* differences between convex and concave lens.
(ii) Draw a labelled diagram of an electric motor.
(iii) Name *two* devices that run with solar cooker.

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(Multiple Choice Questions)

1 each

6. (i) The biogas produced after decomposition of waste organic matter contains :
- (A) Methane (B) Carbon dioxide
(C) Hydrogen sulphide (D) All of these
- (Choose the correct answer)
- (ii) Bi-focal lenses are used in case when a man is suffering from :
- (A) Myopia
(B) Hypermetropia
(C) Both myopia and hypermetropia
(D) Astigmatism
- (Choose the correct answer)
- (iii) Magnetic effect of current was discovered by :
- (A) Henry (B) Oersted
(C) Maxwell (D) Faraday
- (Choose the correct answer)
- (iv) The material suitable for making a permanent magnet is :
- (A) Steel (B) Copper
(C) Iron (D) Aluminium
- (Choose the correct answer)

Section-B

(CHEMISTRY)

(Long Answer Type Questions)

7. What is an isomerism ? How many structural isomers can you draw for pentane ?

Or

Describe the substitution and addition reactions as chemical properties of carbon compound.

6

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(Short Answer Type Questions)

4 each

8. Write two methods for obtaining a metal from its oxide ore.

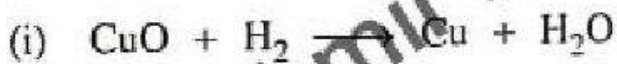
Or

Discuss any *four* physical properties of metals.

9. Write the steps involved in writing a chemical equation.

Or

Identify the substances that are oxidised and the substances that are reduced in the following reactions :



10. Write the uses of washing soda.

Or

How do acids and base react metals ? Write the reaction for each reaction.

(Very Short Answer Type Questions)

2 each

11. (i) Name any *four* elements with filled outermost shells.

(ii) In the modern periodic table which are the metals among the first ten elements ?

(iii) What is Hydrogenation ?

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(Multiple Choice Questions)

1 each

12. (i) Which of the following acids is used as a component of baking powder ?

(A) Acetic acid

(B) Tartaric acid

(C) Lactic acid

(D) Citric acid

(Choose the correct answer)

(ii) $\text{Zn} + \text{HCl} \longrightarrow \text{ZnCl}_2 + \text{H}_2$ is a reaction known as :

(A) Decomposition reaction

(B) Exothermic reaction

(C) Displacement reaction

(D) Endothermic reaction

(Choose the correct answer)

(iii) An alloy of copper and tin is known as :

(A) Brass

(B) Solder

(C) Bronze

(D) Amalgam

(Choose the correct answer)

(iv) The best conductor of electricity among the following is :

(A) Silver

(B) Gold

(C) Platinum

(D) Astatine

(Choose the correct answer)

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Section-C

(LIFE SCIENCE)

(Long Answer Type Questions)

13. What is Nutrition ? What are the differences between autotrophic and heterotrophic nutrition ?

Or

Describe the structure and function of Nephron. Draw the labelled diagram.

6

(Short Answer Type Questions)

4 each

14. How is sex of a child determined in human beings ?

Or

What are the different ways in which individuals with a particular trait may increase in a population ?

15. Name the Hormones secreted by Thyroid, Pancreas, Ovary and Testis.

Or

Describe the structure of Neuron with the help of labelled diagram.

16. What is Vegetative propagation ? Also give its advantage.

Or

Draw a labelled diagram of longitudinal section of flower.

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(Very Short Answer Type Questions)

2 each

17. (i) Define Regeneration with an example.
(ii) Explain the term water harvesting.
(iii) What is an ecosystem ? What are its components ?

(Multiple Choice Questions)

1 each

18. (i) Deforestation generally decreases :
(A) Rainfall
(B) Soil erosion
(C) Drought
(D) Global warming (Choose the correct answer)
- (ii) Non-conventional sources of energy is :
(A) Coal
(B) Wood
(C) Petroleum
(D) Biogas and Solar energy (Choose the correct answer)
- (iii) Nature's cleaners are :
(A) Producers
(B) Consumers
(C) Decomposers
(D) Carnivores (Choose the correct answer)

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(iv) Which of the following are environment friendly practices ?

- (A) Carrying cloth-bags to put purchases in while shopping
 - (B) Switching off unnecessary lights and fans
 - (C) Walking to school instead of getting your mother to drop you on her scooter
 - (D) All of these
- (Choose the correct answer)

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Total No. of Questions : 10

Total No. of Printed Pages : 8

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24605-Z

SCIENCE

(Physics, Chemistry & Life Science)



90/84

Time : 3 Hours

Maximum Marks : 84

Section-A

(PHYSICS) (25)

(Long Answer Type Questions)

144 304
324

1 Describe with the help of diagrams the nature, size and position of the images formed in case of concave mirror when the object is placed :

- (a) between pole and focus
- (b) Beyond the centre of curvature.

5

Or

A concave lens of focal length 15 cm form an image 10 cm from the lens. How far is the object placed from the lens ? Draw the ray diagram.

6

5

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(Short Answer Type Questions)

4 each

2. Define the term power of accommodation of an human eye. What is the near point and far point of a normal human eye?

Or

4

Differentiate between myopia and hypermetropia.

3. State Ohm's law. Explain giving the circuit diagram how you will verify it in the laboratory.

Or

With the help of a diagram derive the formula for equivalent resistances for three resistances connected in parallel.

3

4. What is the principle of an electric motor? What is the role of the split ring in an electric motor?

Or

Draw magnetic field lines around a bar magnet. List the properties of magnetic lines of force.

4

(Very Short Answer Type Questions)

each

5. (i) Find the power of a concave lens of focal length 2 m.

(ii) Define principal focus of a concave mirror.

(iii) What are the advantages of nuclear energy?

i) Pollution free

ii) Cheapest source of Energy

(iii) CE

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(Multiple Choice Questions)

1 each

6. (i) The change in focal length of an eye lens is caused by the action of :
- (A) Pupil
 - (B) Retina
 - (C) Ciliary muscles
 - (D) Iris
- (ii) The S.I. unit of electric charge is
- (A) Coulomb
 - (B) Ohm
 - (C) Ampere
 - (D) Volt
- (iii) Which of the following terms does not represent electric power in a circuit ?
- (A) I^2R
 - (B) IR^2
 - (C) VI
 - (D) V^2/R
- (iv) Which of the following is not an example of a bio-mass energy source ?
- (A) Wood
 - (B) Gobar-gas
 - (C) Nuclear energy
 - (D) Coal

2/3

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A-5-Z

Turn Over



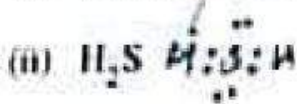
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Section-B
(CHEMISTRY) (30)

(Long Answer Type Questions)

7. Draw the electron dot structures for :

(i) Ethanoic acid



(iii) Propanone

(iv) F_2

ccc

How can ethanal and ethanoic acid be differentiated on the basis of their physical and chemical properties?

(Short Answer Type Questions)

4 each

8. What is the difference between displacement and double displacement reactions? Write equations for these reactions.

Or

Explain the following terms with examples :

(i) Corrosion

(ii) Rancidity.

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9. Name :

- (i) Three elements that have a single electron in their outermost shells.
- (ii) Two elements that have two electrons in their valence shells.
- (iii) Three elements with filled outermost shells.

Or

How could the modern periodic table remove various anomalies of Mendeleev's periodic table ?



10. What is meant by refining of metals ? Describe the electrolytic refining of copper with a neat labelled diagram.

Or

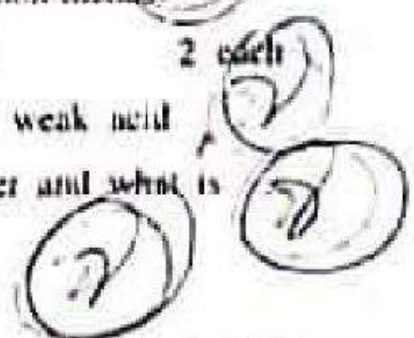
Compare the important characteristics of metals and non-metals.



(Very Short Answer Type Questions)

2 each

- 11. (i) What is difference between a strong acid and a weak acid ?
- (ii) What is the chemical formula of bleaching powder and what is its chemical name ?
- (iii) How do metals and non-metals combine ?



(Multiple Choice Questions)

1 each

- 12. (i) When iron reacts with copper sulphate solution to form iron sulphate and copper :
 - (A) Iron is reduced
 - (B) Iron is oxidized
 - (C) Copper is reduced
 - (D) Copper is oxidized



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(ii) Pentane has the molecular formula C_5H_{12} . It has :

- (A) 5 covalent bonds
- (B) 12 covalent bonds
- (C) 16 covalent bonds
- (D) 17 covalent bonds

(iii) Butanone is a four carbon compound with the functional group :

- (A) Carboxylic acid
- (B) Aldehyde-
- (C) Ketone
- (D) Alcohol

(iv) Which one of the following types of medicine is used for treating indigestion?

- (A) Antibiotic
- (B) Analgesic
- (C) Antacid
- (D) Antiseptics

Section-C

(LIFE SCIENCE) (23)

(Long Answer Type Questions)

13. What is Digestion? Describe briefly the process of digestion in man.

Or

Describe the structure and functions of nephrons.

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(Short Answer Type Questions)

4 each

14. What is difference between reflex action and walking ?

Or

Draw the structure of neuron and explain its function

15. How does binary fission differ from multiple fission ?

Or

What is the role of the seminal vesicles and the prostate glands

16. Explain the terms analogous and homologous organs with examples

Or

How is the sex of the child determined in human beings ?

(Very Short Answer Type Questions)

17. (i) What is the role of decomposers in the ecosystem ?

(ii) Which gas shields the surface of earth from harmful radiations of the sun ? Why are UV radiations harmful to organisms ?

(iii) What is meant by renewable natural resources ?

(Multiple Choice Questions)

1 each

18. (i) The pH range most conducive for life of fresh water plants and animals is :

- (A) 6.5 - 7.5
- (B) 2.0 - 3.5
- (C) 3.5 - 5.0
- (D) 9.0 - 10.5

Turn Over



(ii) The three R's that will help us to conserve natural resources for long term use are :

- (A) Recycle, regenerate, reuse
- (B) Reduce, regenerate, reuse
- (C) Reduce, reuse, redistribute
- (D) Reduce, recycle, reuse

(iii) Blue print of body design and function is :

- (A) Protoplasm
- (B) RNA
- (C) DNA
- (D) Cytoplasm

(iv) Binary fission in Amoeba is a mode of :

- (A) Vegetative multiplication
- (B) Asexual reproduction
- (C) Sexual reproductions
- (D) Perennation

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-5-Z

Handwritten note:
Junction on Principal axis
of S-Mirror
at which
rays of light
meet or appear

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F-3-A

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Total No. of Questions : 20] [Total No. of Printed Pages : 7 + Graph

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17503-A

MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 100

Note :- Attempt all questions.

1. In each of the following items there are four answers (a), (b), (c) and (d). Write down the correct/appropriate answer on your answer-book :

(i) For any two positive integers a and b , then $\text{HCF}(a, b) \times \text{LCM}(a, b)$ is equal to :

(a) $a + b$

(b) $a \times b$

(c) $a - b$

(d) $a \div b$

(ii) If α and β are the zeroes of the quadratic polynomial $ax^2 + bx + c$, then $\alpha + \beta$ is equal to :

(a) $\frac{b}{a}$

(b) $\frac{c}{a}$

(c) $-\frac{b}{a}$

(d) None of these

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(2)

(iii) The common difference of the A.P. $18, 15\frac{1}{2}, 13, \dots$ is :

(a) $-\frac{5}{2}$

(b) $\frac{5}{2}$

(c) $\frac{1}{2}$

(d) None of these

(iv) A line segment of length 20 cm is divided in the ratio of 2 : 3 internally, the measure of two parts (in cm) in the given ratio respectively, would be

(a) 4, 8

(b) 8, 12

(c) 4, 12

(d) None of these

(v) The slant height of a cone is equal to :

(a) $\sqrt{r^2 - h^2}$

(b) $\sqrt{h^2 + (r_1 - r_2)^2}$

(c) $\sqrt{r^2 + h^2}$

(d) None of these

(vi) One card is drawn from a well-shuffled deck of 52 cards. The probability of getting a spade card is equal to :

(a) $\frac{1}{2}$

(b) $\frac{1}{3}$

(c) $\frac{1}{4}$

(d) None of these

1×6=6

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2. Show that : $\tan 48^\circ \tan 23^\circ \tan 42^\circ \tan 67^\circ = 1$ 2
3. Find the area of a triangle whose vertices are (1, -1), (-4, 6) and (-3, -5). 2
4. From a point Q, the length of the tangent to a circle is 24 cm and the distance of Q from the centre is 25 cm. Find the radius of the circle. 2
5. Find the HCF of 96 and 404 by the prime factorisation method. Hence, find their LCM. 4
6. Divide the polynomial $p(x)$ by the polynomial $g(x)$ and find the quotient and the remainder :

$$p(x) = x^4 - 3x^2 + 4x + 5$$

$$g(x) = x^2 + 1 - x$$

7. Find the sum of the A.P. 2, 7, 12, to 10 terms. 4
8. Solve the following pair of linear equations by the substitution method :

$$8x + 5y = 9$$

and

$$3x + 2y = 4$$

4

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(4)

9. Five years ago, Nuri was thrice as old as Sonu. Ten years later, Nuri will be twice as old as Sonu. How old are Nuri and Sonu ? 4

10. A die is thrown once. Find the probability of getting :

(i) a prime number

(ii) a number lying between 2 and 6

(iii) an odd number 4

11. Find the roots of the following quadratic equation by the method of completing the square

$$2x^2 - 7x + 3 = 0$$

Or

Rohan's mother is 26 years older than him. The product of their ages (in years) 3 years from now will be 360. Find the Rohan's present age. 6

12. Sum of the areas of two squares is 468 m^2 . If the difference of their perimeters is 24 m, find the sides of the two squares.

Or

The difference of squares of two numbers is 180. The square of the smaller number is 8 times the larger number. Find the two numbers. 6

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13. Prove that the ratio of the areas of two similar triangles is equal to the square of the ratio of their corresponding sides.

If the areas of two similar triangles are equal, prove that they are congruent.

14. BL and CM are medians of a triangle ABC right angled at A. Prove that :

$$4(BL^2 + CM^2) = 5BC^2$$

Or

ABCD is a trapezium in which $AB \parallel DC$ and its diagonals intersect each other at the point O. Show that :

$$\frac{AO}{BO} = \frac{CO}{DO}$$

15. Find the coordinates of the points of trisection of the line segment joining $(4, -1)$ and $(-2, -3)$.

Or

Find the relation between x and y such that the point (x, y) is equidistant from the points $(3, 6)$ and $(-3, 4)$.

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(6)

16. Prove the following identity :

$$\frac{\tan \theta}{1 - \cot \theta} + \frac{\cot \theta}{1 - \tan \theta} = 1 + \sec \theta \operatorname{cosec} \theta$$

Or

$$\text{If } \sin (A - B) = \frac{1}{2}, \cos (A + B) = \frac{1}{2},$$

$$0^\circ < A + B \leq 90^\circ, A > B$$

Find A and B.

17. From a point on the ground, the angles of elevation of the bottom and the top of a transmission tower fixed at the top of a 20 m high building are 45° and 60° respectively. Find the height of the tower.

Or

The shadow of a tower standing on a level ground is found to be 40 m longer when the Sun's altitude is 30° than when it is 60° . Find the height of the tower.

18. Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle.

Or

Prove that the angle between the two tangents drawn from an external point to a circle is supplementary to the angle subtended by the line segment joining the points of contact at the centre.

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(7)

19. Draw a pair of tangents to a circle of radius 5 cm which are inclined to each other at an angle of 60° .

Or

Draw a triangle ABC with side $BC = 6$ cm, $AB = 5$ cm and $\angle ABC = 60^\circ$. Then construct a triangle whose sides are $\frac{3}{4}$ of the corresponding sides of the triangle ABC. (Steps of construction is not required).

20. A toy is in the form of a cone of radius 3.5 cm mounted on a hemisphere of same radius. The total height of the toy is 15.5 cm. Find the total surface area of the toy.

Or

A cylindrical bucket, 32 cm high and with radius of base 18 cm, is filled with sand. This bucket is emptied on the ground and a conical heap of sand is formed. If the height of the conical heap is 24 cm, find the radius and slant height of the heap.

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C-3-C

Roll No. 1146228

Total No. of Questions : 20]

[Total No. of Printed Pages : 7 + Graph

SSERKNO17

15103-C

MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 100

1. In each of the following write down the correct answer on your answer-book :

(i) $\sqrt{121}$ is :

- (a) an irrational number
- (b) a composite number
- (c) a rational number
- (d) none of these

(ii) The zero's of the quadratic polynomial $x^2 + 3x - 10$ is :

- (a) 2, -5
- (b) 2, 5
- (c) 5, -2
- (d) None of these

Handwritten solution for the quadratic polynomial $x^2 + 3x - 10$:

$$x^2 + 3x - 10 = 0$$
$$x^2 + 5x - 2x - 10 = 0$$
$$x(x + 5) - 2(x + 5) = 0$$
$$(x + 5)(x - 2) = 0$$

Therefore, $x + 5 = 0$ or $x - 2 = 0$
 $x = -5$ or $x = 2$

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(2)

(iii) The common difference of an A.P. 34, 32, 30, is.

(a) 2

(b) 3

(c) -2

(d) None of these

Handwritten calculation:
 $34 - 32 = 2$
 $32 - 30 = 2$

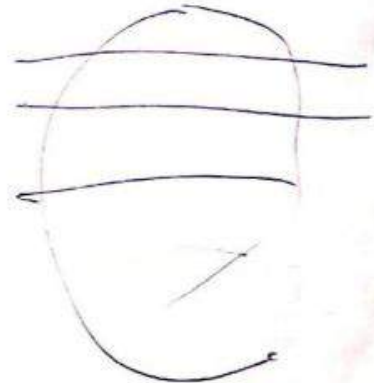
(iv) How many tangents can a circle have ?

(a) One

(b) Infinite

(c) Two

(d) None of these



(v) The volume of cylinder is :

(a) $\frac{1}{3} \pi r^2 h$

(b) $\pi r^2 h$

(c) $\frac{2}{3} \pi r h$

(d) None of these

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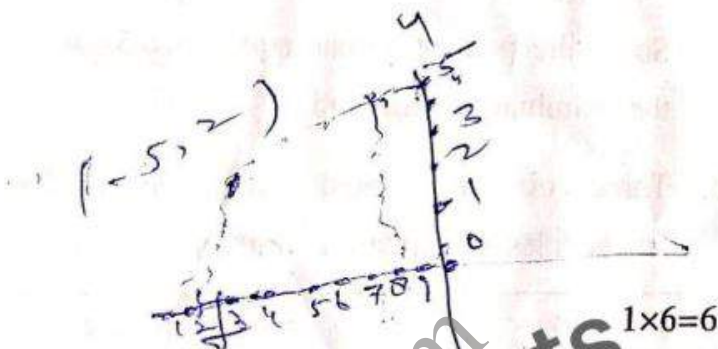
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(3)

(vi) Probability of an impossible event is :

- (a) 1
(b) 0
(c) 2
(d) None of these



2. Find the point on x -axis which is equidistant from $(2, -5)$ and $(-2, 9)$. 2
3. Draw a circle and two lines parallel to a given line such that one is a tangent and the other a secant to the circle. 2
4. Show that :
 $\tan 48^\circ \tan 23^\circ \tan 42^\circ \tan 67^\circ = 1$ 2
5. Use Euclid's algorithm to find the H. C. F. of 135 and 225. 4
6. Obtain all other zero's of $3x^4 + 6x^3 - 2x^2 - 10x - 5$, if two of its zero's are $\sqrt{5/3}$ and $-\sqrt{5/3}$. 4
7. How many multiples of 4 lies between 10 and 250 ? 4

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8. The larger of two supplementary angles exceeds the smaller by 18 degree, find them. 4
9. Solve the pair of linear equations $3x - 5y = 4$ and $9x - 2y = 7$ by the elimination method. 4
10. Three coins are tossed simultaneously 200 times with the following frequencies of different outcomes :

Outcome	3 Heads	2 Heads	1 Head	No Head
Frequency	23	72	77	28

- It the three coins are simultaneously tossed again. Compute the probability of 2 heads coming up. 4
11. Find the roots of the quadratic equation $2x^2 - 7x + 3 = 0$ by the method of completing square.
- Or
- A train travels 360 km at a uniform speed. If the speed has been 5 km/h more, it would have taken one hour less for the same journey. Find the speed of the train. 6
12. Find two numbers whose sum is 27 and product is 182.

Or

The sum of the resprocals of Rehman's age, (in years) 3 years ago and 5 years from now is $\frac{1}{3}$. Find his present age. 6

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(5)

13. ABCD is a trapezium in which $AB \parallel DC$ and its diagonals intersect each other at a point O. Show that :

$$\frac{AO}{BO} = \frac{CO}{DO}$$

Or

If AD and PM are medians of triangles ABC and PQR respectively where $\Delta ABC \sim \Delta PQR$. Prove that. :

$$\frac{AB}{PQ} = \frac{AD}{PM}$$

6

14. In a triangle, the square of hypotenuse is equal to the sum of the squares of the other two sides. Prove it.

Or

In an equilateral ΔABC , D is a point on side BC such that

$$BD = \frac{1}{3}BC. \text{ Prove that } 9AD^2 = 7AB^2.$$

6

15. Find the area of a rhombus if its vertices are (3, 0), (4, 5), (-1, 4) and (-2, -1) taken in order.

Or

Find the area of the triangle formed by joining the mid points of the sides of the triangle whose vertices are (0, -1), (2, 1) and (0, 3).

Find the ratio of this area to the area of the given triangle.

6

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(6)

16. If A, B and C are interior angles of a triangle ABC, then show that :

$$\sin\left(\frac{B+C}{2}\right) = \cos\frac{A}{2}$$

Or

If $\angle A$ and $\angle B$ are acute angles such that $\cos A = \cos B$, then show that $\angle A = \angle B$.

6

17. Prove that :

$$\frac{\sqrt{1+\sin A}}{\sqrt{1-\sin A}} = \sec A + \tan A$$

Or

A tree breaks due to storm and the broken part bends so that the top of the tree touches the ground making the angle 30° with it. The distance between the foot of the tree to the point where the top touches the ground is 8 m. Find the height of the tree.

7

18. Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle.

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(7)

Or

Prove that the lengths of tangents drawn from an external point to a circle are equal. 7

19. Construct a triangle with sides 5 cm, 6 cm and 7 cm and then another triangle whose sides are $\frac{7}{5}$ of the corresponding sides of the first triangle. (Steps of construction is not required)

Or

Draw a circle of radius 3 cm. Take two points P and Q on one of its extended diameter each at a distance of 7 cm from its centre. Draw tangents to the circle from these two points P and Q. (Steps of construction is not required) 7

20. Metallic spheres of radii 6 cm, 8 cm and 10 cm, respectively, are melted to form a single solid sphere. Find the radius of the resulting sphere.

Or

A vessel is in the form of a hollow hemisphere mounted by a hollow cylinder. The diameter of the hemisphere is 14 cm and total height of the vessel is 13 cm. Find the inner surface area of the vessel. 7

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Total No. of Questions : 20] [Total No. of Printed Pages : 7 + Graph

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13803-C

MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 100

1. (i) Define a prime number.
- (ii) A polynomial where all the coefficients are 0 is called a polynomial.
- (iii) Which of the following cannot be the probability of an event ?
- (a) $\frac{2}{3}$ (b) -1.5
- (c) 0.7 (d) None of these
- (iv) The common difference of an A.P. 3, 1, -1, -3, is :
- (a) -2 (b) 3
- (c) 2 (d) None of these

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(2)

(v) Volume of hemisphere is :

(a) $\frac{2}{3}\pi r^2$

(b) $\frac{2}{3}\pi r^3$

(c) $\frac{4}{3}\pi r^3$

(d) None of these

(vi) A line intersecting the circle in two points is called :

(a) Tangent

(b) Chord

(c) Secant

(d) None of these

2. Find the co-ordinates of the point which divides the line segment joining the points $(-1, 7)$ and $(4, -3)$ in the ratio $2 : 3$. 1×6=6
3. The length of a tangent from a point A at distance 5 cm from the centre of the circle is 4 cm. Find the radius of the circle. 2
4. If $\sin A = \frac{3}{4}$, calculate : 2

$\cos A$ and $\tan A$

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$13 \times 26 = 338$
 $13 \times 91 = 1182$
 $LCM \times HCF = 338 \times 13 = 4394$
 $26 \times 91 = 2366$

5. Find the LCM and HCF of 26 and 91 and verify that $LCM \times HCF =$ Product of the two numbers.

$26 \quad 91 \quad 4$

6. Find the sum of the first 15 multiples of 8.

$8x - 15 = y$
 $x - 10 = 3y + 5$
 $x = 3y + 5$
 $x + 10 = 2y$

7. Solve the pair of equations :

$\frac{1}{2x} + \frac{1}{3y} = 2$

$\frac{1}{3x} + \frac{1}{2y} = \frac{13}{6}$

$x = \frac{3y + 5}{4}$
 $3y + 5 + 10 = 2y$
 $15 = -y$
 $y = -15$

8. Five years ago, Nuri was thrice as old as Sonu. Ten years later, Nuri will be twice as old as Sonu. How old are Nuri and Sonu ?

9. Find a quadratic polynomial, the sum and product of whose zeroes are 0 and $\sqrt{5}$, respectively.

10. A die is thrown once. Find the probability of getting :

- (i) a number lying between 2 and 6
- (ii) an odd number

$x - 5 = 60$
 $x = 65$
 $y = 20$
 $30 + 60$
 15
 35

$3(x - 5) = y$
 $2(x + 10) = y$

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$\Rightarrow b = \frac{1}{15}$
 $x = \frac{y \cdot 15}{6}$

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$2(y + 5) + 10 = y$
 $y + 10 + 10 = y$



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(4)

11. The area of a rectangular plot is 528 m^2 . The length of the plot (in metres) is one more than twice its breadth. Find the length and breadth of the plot.

Or

Find the roots of the quadratic equation $2x^2 - 7x + 3 = 0$ by the method of completing the square.

12. A train travels 360 km at a uniform speed. If the speed had been 5 km/h more, it would have taken/hour less for the same journey. Find the speed of the train.

Or

Find the nature of roots of the quadratic equation $2x^2 - 6x + 3 = 0$ by applying the quadratic formula, then find roots.

13. If a line intersects sides AB and AC of a ΔABC at D and E respectively and is parallel to BC, prove that :

$$\frac{AD}{AB} = \frac{AE}{AC}$$

Or

A vertical pole of length 6 m casts a shadow 4 m long on the ground and at the same time a tower casts a shadow 28 m long.

Find the height of the tower.

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(5)

14. In a triangle, if square of one side is equal to the sum of the squares of the other two sides, then prove that the angle opposite the first side is a right angle.

Or

Diagonals of a trapezium ABCD with $AB \parallel DC$ intersect each other at the point O. If $AB = 2CD$, find the ratio of the areas of triangles AOB and COD.

6

15. Find a relation between x and y such that the point (x, y) is equidistant from the points $(3, 6)$ and $(-3, 4)$.

Or

Find the area of the quadrilateral whose vertices, taken in order, are $(-4, -2)$, $(-3, -5)$, $(3, -2)$ and $(2, 3)$.

16. In triangle ABC; right angled at B, if $\tan A = \frac{1}{\sqrt{3}}$, find the value of

$$\sin A \cos C + \cos A \sin C$$

Or

If A, B and C are interior angles of a triangle ABC, then show that :

$$\sin\left(\frac{B+C}{2}\right) = \cos\frac{A}{2}$$

6

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(6)

17. From a point on the ground, the angle of elevation of the bottom and the top of a transmission tower fixed at the top of a 20 m high building are 45° and 60° respectively. Find the height of the tower.

Or

Prove that :

$$\sqrt{\frac{1+\sin A}{1-\sin A}} = \sec A + \tan A$$



18. Prove that the tangent at any point of a circle is perpendicular to the radius through the point of contact.

Or

Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle.

19. Construct an isosceles triangle whose base is 8 cm and altitude 4 cm and then another triangle whose sides are $1\frac{1}{2}$ times the corresponding sides of the isosceles triangle.

(Steps of construction are required)

Or

Draw a pair of tangents to a circle of radius 5 cm which are inclined to each other at an angle of 60° .

(Steps of construction are required)

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(7)

20. How many silver coins, 1.75 cm in diameter and of thickness 2 mm, must be melted to form a cuboid of dimensions 5.5 cm \times 10 cm \times 3.5 cm ?

Or

The radii of the ends of a frustum of a cone 45 cm high are 28 cm and 7 cm. Find its volume and the curved surface area. 7

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F-3-B

Roll No. 2416450

Total No. of Questions : 20] [Total No. of Printed Pages : 7 + Graph

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17503-B

MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 100

Note :- Attempt all questions.

1. In each of the following items there are four answers (a), (b), (c) and (d). Write down the correct/appropriate answer on your answer-book :

(i) For some integer m , every even integer is of the form :

(a) m
(c) $2m$

(b) $m + 1$

(d) $2m + 1$

(ii) If α and β are the zeroes of the quadratic polynomial $ax^2 + bx + c$, then $\alpha\beta$ is equal to :

(a) $\frac{b}{a}$

(b) $\frac{c}{a}$

(c) $-\frac{b}{a}$

(d) None of these

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(2)

- (iii) The common difference of the A.P. $\sqrt{2}$, $\sqrt{8}$, $\sqrt{18}$, $\sqrt{32}$,
..... is :
- (a) $\sqrt{6}$ (b) $\sqrt{2}$
(c) $2\sqrt{2}$ (d) None of these
- (iv) A line segment of length 36 cm is divided in the ratio of 5 :
4 internally, the measure of two parts (in cm) in the given ratio
respectively, would be :
- (a) 20, 16 (b) 24, 12
(c) 30, 6 (d) None of these
- (v) The slant height of the frustum of a cone is equal to :
- (a) $\sqrt{r^2 + h^2}$ (b) $\sqrt{h^2 + (r_1 - r_2)^2}$
(c) $\sqrt{h^2 + (r_1 + r_2)^2}$ (d) None of these
- (vi) One card is drawn from a well-shuffled deck of 52 cards. The
probability of getting a king of red colour is :
- (a) $\frac{1}{4}$ (b) $\frac{1}{13}$
(c) $\frac{1}{26}$ (d) None of these

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2. If A, B and C are interior angles of a triangle ABC, then show that :

$$\sin \left(\frac{B + C}{2} \right) = \cos \frac{A}{2} \quad 2$$

3. Find the area of the triangle whose vertices are (2, 3), (-1, 0) and (2, -4). 2

4. From a point Q, the length of the tangent to a circle is 24 cm and the distance of Q from the centre is 25 cm. Find the radius of the circle. 2

5. Find the HCF and LCM of 6, 72 and 120, using the prime factorization method. 4

6. Divide the polynomial $p(x)$ by the polynomial $g(x)$ and find the quotient and remainder :

$$\begin{aligned} p(x) &= x^3 - 3x^2 + 5x - 3 \\ g(x) &= x^2 - 2 \end{aligned} \quad \text{LB} \quad \text{Ans}$$
4

7. If the 3rd and the 9th terms of an A.P. are 4 and -8 respectively, which term of this A.P. is zero. 4

8. Solve the following pair of equations by the substitution method :

$$7x - 15y = 2$$

and

$$x + 2y = 3$$
4

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(4)

9. The difference between two numbers is 26 and one number is three times the other. Find them. 4

10. A die is thrown once. Find the probability of getting :

(i) a prime number

(ii) a number lying between 2 and 6

(iii) an odd number 4

11. Find the roots of the following quadratic equation by the method of completing the square :

$$2x^2 - 7x + 3 = 0$$

Or

Rohan's mother is 26 years older than him. The product of their ages (in years) 3 years from now will be 360. Find the Rohan's present age. 6

12. Sum of the areas of two squares is 468 m^2 . If the difference of their perimeters is 24 m, find the sides of the two squares.

Or

The difference of squares of two numbers is 180. The square of the smaller number is 8 times the larger number. Find the two numbers. 6

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(5)

13. Prove that the ratio of the areas of two similar triangles is equal to the square of the ratio of their corresponding sides.

Or

If the areas of two similar triangles are equal, prove that they are congruent. 6

14. BL and CM are medians of a triangle ABC right angled at A. Prove that :

$$4(BL^2 + CM^2) = 5BC^2$$

Or

ABCD is a trapezium in which $AB \parallel DC$ and its diagonals intersect each other at the point O. Show that :

$$\frac{AO}{BO} = \frac{CO}{DO}$$

6

15. Find the coordinates of the points of trisection of the line segment joining (4, -1) and (-2, -3).

Or

Find the relation between x and y such that the point (x, y) is equidistant from the points (3, 6) and (-3, 4). 6

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(6)

16. Prove the following identity :

$$\frac{\tan \theta}{1 - \cot \theta} + \frac{\cot \theta}{1 - \tan \theta} = 1 + \sec \theta \operatorname{cosec} \theta$$

Or

$$\text{If } \sin (A - B) = \frac{1}{2}, \cos (A + B) = \frac{1}{2},$$

$$0^\circ < A + B \leq 90^\circ, A > B$$

Find A and B.

6

17. From a point on the ground, the angles of elevation of the bottom and the top of a transmission tower fixed at the top of a 20 m high building are 45° and 60° respectively. Find the height of the tower.

Or

The shadow of a tower standing on a level ground is found to be 40 m longer when the Sun's altitude is 30° than when it is 60° . Find the height of the tower.

7

18. Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle.

Or

Prove that the angle between the two tangents drawn from an external point to a circle is supplementary to the angle subtended by the line segment joining the points of contact at the centre.

7

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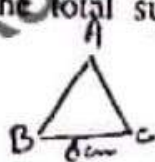
19. Draw a pair of tangents to a circle of radius 5 cm which are inclined to each other at an angle of 60° .

Or

Draw a triangle ABC with side $BC = 6$ cm, $AB = 5$ cm and $\angle ABC = 60^\circ$. Then construct a triangle whose sides are $\frac{3}{4}$ of the corresponding sides of the triangle ABC. (Steps of construction is not required).

7

20. A toy is in the form of a cone of radius 3.5 cm mounted on a hemisphere of same radius. The total height of the toy is 15.5 cm. Find the total surface area of the toy.



Or

A cylindrical bucket, 32 cm high and with radius of base 18 cm, is filled with sand. This bucket is emptied on the ground and a conical heap of sand is formed. If the height of the conical heap is 24 cm, find the radius and slant height of the heap.

7

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C-3-A

Roll No.

Total No. of Questions : 20

[Total No. of Printed Pages : 7 + Graph

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15103-A

MATHEMATICS

[Maximum Marks : 100

Time : 3 Hours]

1. In each of the following write down the correct answer on your answer-book :

- (i) π is :
- (a) a composite number
 - (b) an irrational number
 - (c) a rational number
 - (d) none of the above

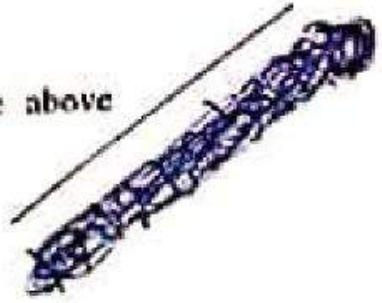
(ii) The zero's of the quadratic polynomial $x^2 + 7x + 10$ are :

- (a) -2, -5
- (b) 2, -5
- (c) -2, -5
- (d) None of the above

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(iii) The common difference of an A.P. 2, 7, 12, is,

(a) -5

(b) 5

(c) 3

(d) None of the above

(iv) The tangent to the circle intersect it in:

(a) One point

(b) Two points

(c) Three points

(d) None of the above

(v) The volume of a sphere is :

(a) $\frac{4}{3} \pi r^2$

(b) $\frac{2}{3} \pi r^3$

(c) $\frac{4}{3} \pi r^3$

(d) None of the above

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(3)

(vi) Which of the following cannot be the probability of an event?

(a) $2/3$

(b) -1.5

(c) 3.2

(d) None of the above

2. Determine if the points (1, 5), (2, 3) and (3, 11) are collinear. 2

3. If the tangent PQ at a point P of a circle of radius 5 cm meets a line through the centre O at a point Q, so that OQ = 12 cm. Find the length of PQ. 2

4. Show that:

$$\tan 48^\circ \tan 23^\circ \tan 42^\circ \tan 67^\circ = 1$$

5. Use Euclid's algorithm to find the H. C. F. of 135 and 225. 4

6. Divide $3x^2 - x^3 - 3x + 5$ by $(x-1) - x^2$ and verify the division algorithm. 4

7. How many two-digit numbers are divisible by 3? 4

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8. Solve $2x + 3y = 11$ and $2x - 4y = -24$ and hence find the value of m for which $y = mx + 3$. 4

9. Solve the pair of linear equations $x + y = 5$ and $2x - 3y = 4$ by the elimination method. 4

10. In a cricket match, a batsman hits a boundary 6 times out of 30 balls she plays. Find the probability that she did not hit a boundary. 4

11. Find the roots of the quadratic equation $2x^2 + 7x + 3 = 0$ by the method of completing square.

11. (c) A train travels 360 km at a uniform speed. If the speed has been 5 km/h more, it would have taken one hour less for the same journey. Find the speed of the train. 6

12. Find two numbers whose sum is 27 and product is 182.

Or

The sum of the reciprocals of Rehman's age, (in years) 3 years ago and 5 years from now is $\frac{1}{3}$. Find his present age. 6

13. ABCD is a trapezium in which $AB \parallel DC$ and its diagonals intersect each other at a point O. Show that :

$$\frac{AO}{BO} = \frac{CO}{DO}$$

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(5)

Or

If AD and PM are medians of triangles ABC and PQR respectively where $\Delta ABC \sim \Delta PQR$. Prove that :

$$\frac{AB}{PQ} = \frac{AD}{PM}$$

6

14. In a triangle, the square of hypotenuse is equal to the sum of the squares of the other two sides. Prove it.

Or

In an equilateral ΔABC , D is a point on side BC such that

$$BD = \frac{1}{3} BC. \text{ Prove that } 9AD^2 = 7AB^2.$$

6

15. Find the area of a rhombus if its vertices are (3, 0), (4, 5), (-1, 4) and (-2, -1) taken in order.

Or

Find the area of the triangle formed by joining the mid points of the sides of the triangle whose vertices are (0, -1), (2, 1) and (0, 3).

Find the ratio of this area to the area of the given triangle.

6

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(6)

16. If A, B and C are interior angles of a triangle ABC, then show that :

$$\sin\left(\frac{B+C}{2}\right) = \cos\frac{A}{2}$$

Or

If $\angle A$ and $\angle B$ are acute angles such that $\cos A = \cos B$, then show that $\angle A = \angle B$.

17. Prove that :

$$\frac{\sqrt{1+\sin A}}{\sqrt{1-\sin A}} = \sec A + \tan A$$

Or

A tree breaks due to storm and the broken part bends so that the top of the tree touches the ground making the angle 30° with it. The distance between the foot of the tree to the point where the top touches the ground is 8 m. Find the height of the tree.

18. Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle.

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(7)

Or

Prove that the lengths of tangents drawn from an external point to a circle are equal. 7

19. Construct a triangle with sides 5 cm, 6 cm and 7 cm and then another triangle whose sides are $\frac{7}{5}$ of the corresponding sides of the first triangle. (Steps of construction is not required)

Or

Draw a circle of radius 3 cm. Take two points P and Q on one of its extended diameter each at a distance of 7 cm from its centre. Draw tangents to the circle from these two points P and Q. 7

(Steps of construction is not required)

20. Metallic spheres of radii 6 cm, 8 cm and 10 cm, respectively, are melted to form a single solid sphere. Find the radius of the resulting sphere.

Or

A vessel is in the form of a hollow hemisphere mounted by a hollow cylinder. The diameter of the hemisphere is 14 cm and total height of the vessel is 13 cm. Find the inner surface area of the vessel. 7

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Roll No. 1146228

Total No. of Questions : 18]

[Total No. of Printed Pages : 15

SSERKNO17

15100-B

ENGLISH

Time : 3 Hours]

[Maximum Marks : 100

Section-A

(Reading)

1. Read the following extract and complete the summary by writing words/phrases in the blanks :

And bending down beside the glowing bars,

Murmer, a little sadly, how love fled

And paced upon the mountains overhead

And hid face among a crowd of stars

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Summary :

The poet visualises a time when his beloved will grow and he will be no more in the world. Then his poem will remind his beloved of his true She will sit by the side of the hearth and feel sad for the whose love she had not She will feel sad over the fate of the dead The poet says that his soul will fly high above the and hide itself behind the stars.

$\frac{1}{2} \times 6 = 3$

2. Study the following expressions used by the poet and choose the most appropriate suggestions for each expression. Write the answer against each expression :

Expression from the poem	To suggest that
(a) full of sleep	(i)
(b) murmur	(ii)
(c) pilgrim soul	(iii)

Suggestions :

- (i) Youth and beauty

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C-0-B



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(3)

(ii) Pure heart

(iii) Speak softly

(iv) Fade away

(v) Approaching death

1×3=3

3. Read the extract below and answer the questions given at the end :

I saw my mother beside me,

Doze, open mouthed, her face ashen like that

of a corpse and realized with pain

That she was as old as she looked

Questions

(a) What did the poet notice/realize ?

2

(b) Why did the mother's face look like that of a corpse ?

2

(c) Write the meaning of :

(i) Ashen

(ii) Realized

$\frac{1}{2} \times 2 = 1$

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4. Read the passage below and answer the questions given at the end :

“Is that his design in setting here ?” “Design! Nonsense, how can you talk so! But it is very likely that he may fall in love with one of them, and, therefore, you must visit him as soon as he comes.” ‘I see no occasion for that. You and the girls may go, or You may send them by themselves, which perhaps will be still better, for, as you are as handsome as any of them

Questions :

(a) Give the antonyms of :

(i) love

(ii) fall

(iii) comes

(iv) handsome

$\frac{1}{2} \times 4 = 2$

(b) Fill in the blanks suitably :

(i) The word “his” in the first sentence refers to

(ii) It is nonsense to think that

(iii) The of girls insists their to visit the tenant.

$\frac{1}{2} \times 4 = 2$

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5. Read the passage below and complete the sentences given at the end :

Shaikh Noor-ud-Din Wali (R.A.) set an example of simplicity, truthfulness and devoted service of people by his saintly life. As a missionary, he taught us that a true saint is not one who escapes from practical life but one who does the duties of life with honesty and humility. In one of his verses, he tells us that the chosen servants of god are those who worship him sincerely and fulfil their duties in life regularly. He attracted disciples everywhere. All of them were noble souls and lived lives of piety.

Questions

Fill in the blanks suitably :

- (a) The Shaikh (R.A.) set an example by
- (b) He says a true saint is one
- (c) Those who worship God sincerely
- (d) The great saint attracted disciples
- (e) What the Shaikh preached is that 1×5=5

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Section-B

(Writing Skills)

6. You are Secretary Cultural Club of Crescent Public School, Srinagar.

Your school is organising a debate on 2nd October, 2017 on the topic "Cultural Diversity and Religious Tolerance." Write a notice in about 50 words impressing upon the students to participate in the debate and remain present in the Auditorium on the occasion. 4

7. You are Shaheen, personal Assistant of the Principal Govt. S. P.

Higher Secondary School, Srinagar. He asks you to draft a message for the Vice-Principal. Using the information from the note-pad, draft the message.

(i) Attend urgent meeting.

(ii) Meeting in my office at 10 a.m. today.

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(iii) Agenda—Absenteeism in Higher Classes.

(iv) Indiscipline thereof.

8. You are Jan Mohammad of Lal Chowk Srinagar—Owner of a business unit there. You are worried about slow pace of dredging of Jehlum in view of the disastrous September 2014 flood. Write a letter to a leading Daily Newspaper for publication highlighting the need for speedy dredging of Jehlum and strengthening the river banks by vacating the encroachments in about 150 words. 4
9. You have to speak in the Morning Assembly of the School on your turn. As a conscious citizen, write a speech asserting the strong and time-tested communal harmony in our society in the light of recent overtures of vested interests to disturb it in about 250 words highlighting the unity in diversity. 5
- 7

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(8)

Section-C

(Literature)

10. Why was the arrival of the stranger in a village inn an unusual Event ?

Or

Anne says teachers are the most unpredictable. Do you agree ? Why or why not ?

1×5=5

11. Identify and comment upon the instances of humour in the story "Pappachi's Moth"

Or

How did Mandela's "hunger for freedom" change his life ?

1×5=5

12. Identify and explain the poetic device used in the lines below :

Or

Why should we beat our heads against the wall of each other ?

I shall sit and wait for the bell.

3

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(9)

13. Comment upon the poetic devices of the poem, "Snowdrop".

Or

Comment upon the adverse effects of Spanish Civil War. $1 \times 3 = 3$

14. Identify and comment upon the literary devices used in the lines below :

Opposed to you I have seen the blood

of Spain size up

To draw you, in a single wave

of pride and knives !

Or

Identify poetic devices used in "Speak up". $1 \times 4 = 4$

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(10)

15. Comment upon the major themes of "The Necklace".

Or

Sketch the character of "Bholi" with a special reference to Beti

Bachao Beti Padhao Slogan.

1×5=5

16. Discuss 'joint family norm' as one of the major themes of Abhiley.

Or

Sketch the character of Rama Rao or Portia.

1×5=5

17. Compare and contrast the characters of Lomov and Natalya in "The Proposal".

Or

Do you agree that the "problem of marriage" as one of the major

themes of the play, "The Proposal" ? Why ?

1×5=5

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Section-D

(Grammar)

18. (a) Complete the following dialogue suitably :

Shayan : Hi Shaker ! Here is a photo of Umayya.

Shaker : Oh pretty !

Shayan : Yes she's got big green eyes.

Shaker : She has got beautiful curly

Shayan : Yes, it's very

Shaker : Shayan, She's tall but $\frac{1}{2} \times 6 = 3$

(b) Edit the following un-edited passage :

Books is a wonderful blessing

When the cloud of sorrow and misery

darken the horizon of our life

They like the true friend

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Comfort and consol us

When our friends and kith and kin

desert us owing to their misfortunes

They stand by we and teach us to

Get over difficulties.

$\frac{1}{2} \times 8 = 4$

(c) Change the narration of the following :

(i) She said to him, "Where do you live ?"

(ii) The teacher said, "The sun is a star."

$1 \times 2 = 2$

(d) Re-arrange the following words to form meaningful sentences :

(i) his/well/not/feeling/father/is

(ii) is/for/essential/life/water

(iii) in/episode/study/the/occurred/a/curious

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(iv) a/killing/painful/tree/the/of/is/process

(v) was/a/the/old/lawless/man/scientist

(vi) is/hot/today/it/very 1/2×6=3

(e) Fill in the blanks with suitable articles :

She is European. She rides cycle. 1/2×2=1

(f) Fill in the blanks with appropriate modals :

(i) God bless you.

(ii) I prefer death to dishonour. 1/2×2=1

(g) Match the phrases under Column 'A' with their meanings under Column 'B' :

Column 'A'

Column 'B'

put down

to introduce

give up

to suppress

bring in

to stop doing

come after

to chase 1/2×4=2

Turn Over

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C-0-B



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(h) Fill in the blanks with appropriate homonyms :

(i) I them to act upon my

(advise/advise)

(ii) Is it to charge extra ? (fair/fare)

(iii) It is impossible to be (quiet/quite)

$\frac{1}{2} \times 6 = 3$

(i) Join the following sentences by changing one of them into a relative clause :

(i) He met a man. He has lost his eye.

(ii) She is a student of C.P.S. She stood first.

(iii) A bus goes to Lal chowk. It runs every hour.

$1 \times 3 = 3$

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(. 15)

(j) Punctuate the following :

silence said prospero pretending to be angry with her are you

trying to teach me what to do

3

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Roll No. 1135542

Total No. of Questions : 11]

[Total No. of Printed Pages : 15

10th BAKDF-M19

22500-B

ENGLISH

Time : 3 Hours]

[Maximum Marks : 100

Section-A

(READING)

1. Read the following extract and complete the summary by writing words/phrases in the blanks :

Why, who makes much of a miracle ?

As to me I know of nothing else but miracles;

Whether I walk the streets of Manhattan,

Or dart my sight over the roofs of houses towards the sky,

Or wade with naked feet along the beach just in the edge of water

Or stand under trees in the woods,

Or talk by day with anyone I love,

Or sit at table at dinner with the rest,

Or look at strangers opposite me riding in the car.

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Summary :

The poet his great surprise as to why people about miracles. He has a different about miracles.

For him the streets of Manhattan is a For him the roof tops, walking through the water on the beach, look at the stranger opposite him in the car are all miracles. $\frac{1}{2} \times 6 = 3$

2. Study the following expressions used by the poet and choose the most appropriate suggestions for each expression. Write the answer against each expression :

Expression from the poem	To suggest that
(a) Interior	
(b) Wade	
(c) Beach	

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(3)

Suggestions :

- (i) An area of sand
 - (ii) The interior of the earth
 - (iii) Inside
 - (iv) An area of sand beside the sea
 - (v) Walk through water with difficulty
 - (vi) To go through water
- 1×3=3

3. Read the extract below and answer the questions given at the end :

Lord! you are my hope and trust,

Lead me to the way of truth

How long shall I dwell in ignorance !

Pour me the nectar of knowledge

Lend ear to my wailing and pleas,

Cure me of ills and pains;

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Questions :

- (a) Who is the speaker and to whom are these lines addressed ?
- (b) 'Lend ear to my wailing and pleas', explain.
- (c) Give the meaning of :
- (i) Ignorance
 - (ii) Nectar

2+2+1=5

4. Read the passage below and answer the questions given at the end :

I get along pretty well with all my teachers. There are nine of them, seven men two women. Mr. Keesing, the old fogey who teaches maths, was annoyed with me for ages because I talked so much. After several warnings, he assigned me extra homework. An essay on the subject, 'A chatter box'. A chatter box what can you write about that ? I'd worry about that later, I decided. I jotted down the title in my notebook, tucked it in my bag and tried to keep quiet.

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Questions :

(a) Give the antonyms of the following :

- (i) Pretty
- (ii) Later
- (iii) Quiet
- (iv) Several

(b) Fill in the blanks suitably :

- (i) 'The old fogey' here refers to
- (ii) There were men and women engaged to teach the students.
- (iii) It is difficult to write about a title such as $\frac{1}{2} \times 4 = 2$

5. Read the passage below and complete the sentences given at the end :

Anju Dua is one of the most well known coaches in gymnastics in the state of Haryana and a number of her students are today winning awards in many gymnastic competitions in the state and outside. An

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excellent gymnast, Anju's achievements are far greater since she is a special person being both deaf and dumb. The story of Anju Dua (born in 1967) is the story of a person who did not allow her handicap to come in the way of her ambition. She competed in the national championships along with the rest of the participants, asking for no favours and won ten Gold, 23 Silver, and 11 Bronze during the three years from 1987 to 1990. In addition she was declared the Best Gymnast at the Senior Nationals held at Kottayam in 1989.

Questions :

Fill in the blanks suitably :

- (i) Anju's achievements are far greater
- (ii) Though being handicapped, she competed along with other participants in
- (iii) The most well known coach, Haryana state has produced is
- (iv) Anju was declared the best
- (v) Anju won many medals but never asked 1×5=5

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Section-B

(WRITING SKILLS)

6. (a) Saleem is a student secretary at Shining Star Higher Secondary School. His Principal asked him to write a notice asking all House in-charges and House captains to assemble in the office chamber of the Principal at 3 p.m. sharp on coming Saturday to discuss ways to improve the discipline in the School. 4
- (b) Your father's colleague called on your father while he was having a bath. He left a message asking your father to be at office at 9 a.m. sharp to attend the meeting. As you are leaving for school, write a message for your father to convey the same. 4
- (c) Price of all the essential commodities is touching the sky. Everybody is disturbed. Write a letter to the Editor of a newspaper expressing your concern about the sudden rise in prices of all the commodities. 5

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- (d) Our Constitution guarantees equality to all its citizens but even after 70 years of freedom, women continue to suffer. Though women have risen in several fields, yet there is lot to be done.

Write a paragraph on 'Stop Crime Against Women.'

7

Section-C

(LITERATURE)

7. (a) Why does Anne need to give a brief sketch of her family ? Who is Kitty ? Does she treat 'Kitty' as an insider or outsider ?

Mammachi stands out as an independent and resilient woman.

Do you agree ? How ?

5

- (b) How does Mr. Bannet react to the plan designed by his wife ?

Or

How did Mendela's understanding of freedom change with age and experience ?

5

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(c) What was the curious episode that took place in the Clergyman's study ?

Or

What does 'The Ghat of the only world' mean ? 5

8. (a) The poet draws his Miracles from Nature. List any *five* Miracles ?

(Miracles)

Or

Do you think 'Speak-up' is an effort of the poet to give voice to the voiceless ? How ? (Speak-up) 3

(b) Why is the poet's love different from those who also loved his beloved ? (When you are old)

Or

How does the poet describe the Snowdrop's head ?

(Snowdrop) 3

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(10)

- (c) Comment on the imagery used by the poet in the poem 'An Evening Wet With Rain'.

Or

Driving from my Parent's home to Cochin last Friday morning,
I saw my mother beside me,

Doze, open mouthed, her face ashen like that
of a corpse and realised with pain

That she was as old as she looked but soon

What is the poetic device used in these lines ?

4

9. Give the character sketch of Matilda.

Or

Love and encouragement make the impossible possible. Justify the statement in the light of Bholi's story.

5

10. Sketch the character of 'Chubukov'.

Or

Sketch the character of Lomov. What part does he play in the drama ?

5

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Section-D

(GRAMMAR)

11. (a) Complete the dialogue suitably :

Two friends on meeting each other after two years.

Akhtar : Hi Shakeel ! What a great surprise !

Shakeel : Really a great I never expected to see you here.

Akhtar : What about your family ?

Shakeel : Thank God,

Akhtar : Where are you going ?

Shakeel : I am going Delhi to meet my cousin.

Akhtar : What is your cousin doing there ?

Shakeel : He is

Akhtar : Wow! a great news.

Shakeel : I have a short stay at Delhi but leaving for Bombay by next flight.

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Akhtar : When back ?

Shakeel : After one month. I have to there.

Akhtar : Is your cousin staying there ?

Shakeel : Yes, he for the last 5 years. $\frac{1}{2} \times 6 = 3$

(b) Edit the un-edited paragraph :

Some families show affection and attachment

towards their children.....

by giving to them pocket money

These families or parents did not know

What those children do with the money

They get from their parents.

These children mix to other children

and get habitual with bad habits

$\frac{1}{2} \times 8 = 4$

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C-0-B



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(c) Re-arrange the words/phrases to make meaningful sentences :

(i) Mrs. Hall/the room/haunted/was/convicted/that/was

(ii) patience/paper/people/more/has/than

(iii) prefer/dishonour/I/death/would/to

(iv) reap/sow/will/you/as/you/so

(v) not/fear/just/and/be

(vi) eaten/he/up/is/pride/with 1/2 × 6 = 3

(d) Change the narration of the following sentences :

(i) He said, 'I am unwell'.

(ii) 'Please wait here till I return', he said to me. 1 × 2 = 2

(e) Fill in the blanks with appropriate modals :

(i) She drive but she hasn't got a car.

(ii) We obey the law of the land. 1/2 × 2 = 1

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C-0-B



Turn Over

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(f) Fill in the blanks with suitable articles :

(i) She got employment in blank.

(ii) Cloth is sold by metre. $\frac{1}{2} \times 2 = 1$

(g) Match the words/phrases in Column 'A' with their meaning in Column 'B' below :

Column 'A'

Column 'B'

(i) Make up for

(a) To happen as planned

(ii) Persuade

(b) To have good relationship

(iii) Come off

(c) Compensate

(iv) Get on

(d) Motivate

$\frac{1}{2} \times 4 = 2$

(h) Fill in the blanks with appropriate homonyms :

(i) She turned when she lifted the of water. (Pail/Pale)

(ii) They were not to enter though they spoke (aloud/allowed)

(iii) Is it to charge extra..... (fair/fare) $1 \times 3 = 3$

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C-0-B

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(15)

(i) Join the following sentences by changing one of them into a relative clause :

(i) He met a boy. The boy was very young.

(ii) A woman lives next door. She is a doctor.

(iii) A bus goes to Nishat. It runs every hour.

1×3=3

(j) Punctuate the following :

the judge said to the prisoner you have confessed your fault

and your punishment will be light in prison think of your past

life and resolve to live a better life when you are released

3

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C-4-A

Roll No.....

Total No. of Questions : 17]

[Total No. of Printed Pages : 8

10th BAKDF-M19

22504-A

SOCIAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 100

Section-A

(HISTORY)

(Long Answer Type Questions)

5 each

1. Answer the following questions in about 100-150 words each :

(a) How was the history of Nationalism in Britain unlike the rest of Europe ?

Or

What changes did Napoleon introduce to make the administrative system efficient ?

(b) Why growth of Nationalism in the colonies is linked to an anti-colonial movement ?

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C-4-A

Turn Over

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(2)

Or

Write notes on the following :

- (i) Jallianwala Bagh
- (ii) Simon Commission

(Short Answer Type Questions)

4 each

2. (a) Explain the effects of death of men of working age in Europe.

Or

Explain the *three* types of movements or flows within international economic exchange involving India and Indians.

- (b) How did East India Company procure the regular supply of cotton and silk textiles from Indian weavers ?

Or

What led to the major expansion of Bombay's population in mid nineteenth century ?

- (c) Give reasons why Martin Luther was in favour of print and spoke out in praise of it.

Or

Why did some people think that print culture would bring enlightenment and end despotism ?

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C-4-A



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(3)

(Very Short Answer Type Questions)

2 each

3. Answer in a few words or sentences :

- (a) From where the term liberalism derives and what does it mean ?
- (b) Why did Gandhiji organise a Satyagrah in Gujarat ?

(Objective Type Questions)

1 each

4. Do as directed :

- (i) Rinderpest arrived in Africa in the late A.D.
(Fill in the blank)
- (ii) 80% of Bombay's population live in chawls. (True/False)
- (iii) The first book printed by mechanical press was
(Fill in the blank)
- (iv) Sentimental song with repeated melody
(Give one word substitution)

Section-B

(POLITICAL SCIENCE)

(Short Answer Type Questions)

4 each

5. Answer in about 50-80 words each :

- (a) What are the different forms of power sharing in the Modern Democracies ? Give examples.

Or

Write a note on Panchayati Raj in Jammu & Kashmir.

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C-4-A

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(4)

- (b) State *two* reasons to say that caste alone cannot determine election results in India.

Or

Write a note on the diversity of J & K.

- (c) Mention objectives of Women Welfare Association in J & K.

Or

Write a note on the ideologies of each political party in J & K.

- (d) What are the conditions under which democracies accommodate social diversities ?

Or

What are the different challenges faced by modern democracies ?

(Very Short Answer Type Questions)

2

Note :- Answer in a few words or sentences :

6. What are residuary subjects ?

(Objective Type Questions)

1 each

7. Do as directed :

- (i) Peoples Conference was formed in :

- (A) 1977 (B) 1978
(C) 1979 (D) 1980

(Choose the correct one)

- (ii) R.T.I. Act in India was enforced in

(Fill in the blank)

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C-4-A

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(5)

Section-C

(GEOGRAPHY)

(Long Answer Type Questions)

5 each

8. Answer in about 100-150 words each :

(a) What is land degradation ? Give its major causes.

Or

What is Rainwater Harvesting ? Mention its various components.

(b) Highlight the importance of agriculture in India.

Or

Write a note on Project Tiger.

(Short Answer Type Questions)

4 each

9. Answer in about 50-80 words each :

(a) Define a resource. What is resource development ?

Or

What is resource planning ? Discuss in detail about its various stages.

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Turn Over

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- (b) Give in detail the distribution and production of iron ore in India.

Or

What are various factors which influence the location of an industry ?

- (c) J & K is a multihazard prone state. Explain.

Or

Mention some disasters that have affected India.

(Very Short Answer Type Questions)

2 each

10. Answer in few words or sentences:

- (a) What is a Zaid season ?
(b) Name *two* agrobased industries.

(Objective Type Questions)

1 each

11. Do as directed :

- (i) India covers% of global land. (Fill in the blank)
(ii) Tropical forests need cm rainfall.

(Fill in the blank)

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C-4-A

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(iii) The first cotton textile mill was set up in 1854 in :

- (A) Mumbai (B) Ahmadabad
(C) Kanpur (D) Kolkata

(Choose the correct one)

(iv) Handicraft industry is well developed in Kashmir. (True/False)

Section-D

(ECONOMICS)

(Long Answer Type Questions)

6

Note :- Answer in about 100-150 words :

12. Discuss the importance of horticulture in J & K.

Or

Write a short note on Handloom and Handicraft industry in J & K.

(Very Short Answer Type Questions)

2

Note :- Answer in few words or sentences :

13. How potential employment can be increased in J & K ?

(Objective Type Questions)

1 each

14. Do as directed :

(i) Hazratbal Shrine is situated on the banks of Dal lake.

(True/False)

(ii) Hari Parbat is in

(Fill in the blank)

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C-4-A

Turn Over



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Section-E

(DISASTER MANAGEMENT)

(Very Short Answer Type Questions) 2 each

15. Answer in few words or sentences :

(a) What is First Degree Burn ?

(b) What is a First Aid Kit ?

(Objective Type Questions) 1

16. Do as directed :

DRABC stands for (Fill in the blank)

Section-F

(ROAD SAFETY)

(Long Answer Type Questions) 5

17. Answer in about 100-150 words :

What are the services provided by RTO ?

Or

How can we prevent accidents ?

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C-4-A

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E-0-B

Roll No.

Total No. of Questions : 18]

[Total No. of Printed Pages : 15

XARKDN20

2300-B

ENGLISH

Time : 3 Hours]

[Maximum Marks : 100

Section-A

(Reading)

1. Read the following extract and complete the summary by writing words/phrases in the blanks :

You brought me to bloom with the earliest vernal breeze;

Let not the burning heat of summer wither me grey.

Like dew, how long shall I wait for the first flash of the Sun ?

Awaken me with the flowers in the first stroke of the dawn.

In form

I am a man, in substance far from humanity,

Subject me not to trials, shame not my human form.

Summary :

The poem is addressed to God. The poet makes certain wishes before the Almighty. He requests Him to save him from any misfortune and be kind to him. The poet says that God has brought him to (.....) with the earliest fresh breeze. He prays to God not to let the burning heat of the summer fade him. The poet requests God to (.....) him with the flowers in the first stroke of the (.....). The poet says that he is in the form of a (.....) but far from



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The poet requests and prays to God Almighty that he should not be affected by the tough tests i.e. the

2. Study the following expressions used by the poet and choose the most appropriate suggestions for each expression. Write the answer against each expression :

Expression from the poem	To suggest that
(a) Vernal	(i)
(b) Wither	(ii)
(c) Trial	(iii)

Suggestions :

- (i) A tough test
- (ii) Relating to or happening in spring
- (iii) To sing a religious prayer
- (iv) To fade away

3. Read the extract below and answer the questions given at the end :

What is the point of their teaching of mine, and of this,

Learning of theirs ? It all goes down the same abyss.

What does it matter to me, if they can write

A description of a dog, or if they can't ?

What is the point ? To us both, it is all my aunt !

And yet I'm supposed to care, with all my might.

I do not, and will not, they won't and they don't and that's all !

Questions :

- (i) Who is the Speaker ? And what is his mood ?
- (ii) Why does the teacher feel that his teaching and the pupils' learning are both purposeless?

(iii) Write the meaning of :

(a) abyss



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(b) might

4. Read the passage below and answer the questions given at the end :

No one is born hating another person because of the colour of his skin, or his background, or his religion. People must learn to hate and if they can learn to hate, they can be taught to love, for love comes more naturally to the human heart than its opposite. Even in the grimmest times in prison, when my comrades and I were pushed to our limits. I would see a glimmer of humanity in one of the guards, perhaps just for a second, but it was enough to reassure me to keep me going. Man's goodness is a flame that can be hidden but never extinguished.

In life, every man has twin obligations-obligation to his family, to his parents, to his wife and children, and he has an obligation to his people, his community, his country. In a civil and humane society, each man is able to fulfil those obligations according to his own inclinations and abilities.

Questions :

(a) Give the antonyms of :

(i) hate

(ii) grim

(iii) enough

(iv) extinguish

(b) Fill in the blanks suitably :

(i) No one is born another person, because of the colour of skin.

(ii) Man's goodness is a that can be hidden but never extinguished.

(iii) I would see a glimmer of in one of the guards.

(iv) Each man is able to fulfil those according to his own inclinations and abilities.

5. Read the passage below and complete the sentences given at the end :

Environment means all the natural surroundings such as, the earth's atmosphere, pure air and drinkable water. It also includes wildlife, wild places or space for the human beings. Life exists on this planet.



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It is our duty to see that nothing destroys the growth. But man has done a lot for its progress. He has achieved a lot in the field of science and technology. New research in the field of agriculture, progress in industrialisation, advancement in machines and exploration of space has altogether changed the life of a modern man and a modern women. But all this has damaged the healthy environment around us.

Fill in the blanks suitably :

- (i) It is our duty to see that nothing the growth.
- (ii) Environment means all the natural such as, the earth's atmosphere, pure air and drinkable water.
- (iii) New research in the field of agriculture, progress in industrialisation, advancement of machines and exploration of space has altogether the life of a modern man.
- (iv) Man has achieved a lot in the field of
- (v) But this all has the healthy environment around us.

Section-B

(Writing Skills)

- 6. As the Principal of Govt. High School Gulmarg (Kashmir), write a notice on the school Notice-Board in not more than 50 words, informing the students regarding the change in school timings with effect from 1st April, 2020. State valid reasons for the change.
- 7. You are Mr. Sanjay, working as Sr. Asstt. in a School, write a message in not more than 50 words, to the Principal of your school, informing him regarding the postponement of the meeting which was scheduled to be held on coming Monday.
- 8. Your father is away from home, doing business outside the state. He wants to know about your progress at school. Write a letter to him telling him how you are getting on at school. <https://www.jkbseonline.com>
- 9. You are 'Nazish' a student of Class 10th and has to take part in a speech competition on the topic 'Internet as The Need of the Hour' which can be used for achieving National Progress and for promoting international understanding. Write a speech on the given topic in about 250 words.

Section-C

(Literature)



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10. The scientist was furious. What did he do in anger ? Why were the people in the bar horrified ?

Or

What is a Sermon ? How is it different from a lecture ?

11. What were the common things between Ghosh and Shahid ?

Or

How did Mandela's understanding of freedom change with age and experience ?

12. What images does the poet use in the poem 'When You Are Old'?

13. Recall the poem 'Prayer' and write the Similes and Metaphors used in the poem.

14. Write any two images and two examples of Alliteration from the poem 'Snowdrop'.

OR

The poet compares her mother to many things. Pick out two Similes which reinforce this comparison.

(My Mother At Sixty-Six)

15. The course of the Loisel's life changes due to the Necklace.

Comment

OR

Draw a character sketch of 'Matilda'.

16. How will you estimate Abhiley's response to modern technology?

Or

How did Rama Rao alternate between hope and despair?

17. Write down the character sketch of Natalya or Chubukov.

Section-D

(Grammar)

18. (a) Fill in the blanks with



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(i) She tell us a story any time.

(ii) We to respect our teachers.

(b) Fill in the blanks with suitable articles :

(i) Strike iron while it is hot.

(ii) He is student of our school who got first position.

(c) Match the following words/phrases under Column 'A' with their meanings under column 'B'.

Column 'A' - Column 'B'

(i) Bolt from the blue - (1) stop

(ii) Brood over - (2) march in one behind the other

(iii) Fill in - (3) a shocking surprise

(iv) Come to rest - (4) think for a long time

(d) Change the narration of the following sentences :

(i) He said, "I have finished my work."

(ii) My friend said, "Can you lend me some money?"

(e) Join the following sentences by changing one of them into a Relative clause':

(i) My brother is a doctor. He lives in London.

(ii) Lets's go to the school. We studied there.

(iii) This is the girl. She saved a drowning man.

(f) Fill in the blanks with appropriate 'Homophones':

(i) We should not the laws. (break/brake)

(ii) The of our school is an honest man. (Principal/Principle)

(iii) People generally by their right hands. (write/rite)

(g) Punctuate the following:

you dont understand who or

I show you

(h) Re-arrange the words/ph

s :



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- (1) the necklace/her friend/from/Malilda/brought
- (2) policy/the/is/Honesty/best
- (3) careful/the examination/be/we/very/must/during

(i) Edit the following un-edited passage :

Equip with an iron will,
 physical endurance and
 an amaze mental toughness,
 Santosh prove herself great,
 After four years i.e. in 1992
 Santosh Yadav Scale Mt. Everest
 becomes the youngest woman
 in world to achieve the feet.

(j) Complete the following dialogue in a suitable way :

Teacher : Did you take part in the competition ?
 Student : Yes Sir, I participated.
 Teacher : Where was it (a) ?
 Student : Sir, it was held in Srinagar.
 Teacher : Which (b) was it held in ?
 Student : Sir, it was held in PPS Srinagar.
 Teacher : Who got (c) ?
 Student : Mr. Suhail the student of our school got the Ist Position.
 Teacher : Good ! (d) ?
 Student : Sir, Director was himself the guest of honour.
 Teacher : (e) the prizes ?
 Student: The prizes were dis hool
 Teacher : OK, Best of Luck!



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Roll No.....

Total No. of Questions : 11]

[Total No. of Printed Pages : 15

10th BAKDF-M19

22500-B

ENGLISH

Time : 3 Hours]

[Maximum Marks : 100

Section-A

(READING)

1. Read the following extract and complete the summary by writing words/phrases in the blanks :

Why, who makes much of a miracle ?

As to me I know of nothing else but miracles;

Whether I walk the streets of Manhattan,

Or dart my sight over the roofs of houses towards the sky,

Or wade with naked feet along the beach just in the edge of water

Or stand under trees in the woods,

Or talk by day with anyone I love,

Or sit at table at dinner with the rest,

Or look at strangers opposite me riding in the car.

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C-0-B

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Turn Over

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Summary :

The poet his great surprise as to why people about miracles. He has a different about miracles. For him the streets of Manhattan is a For him the roof tops, walking through the water on the beach, look at the stranger opposite him in the car are all miracles. $\frac{1}{2} \times 6 = 3$

2. Study the following expressions used by the poet and choose the most appropriate suggestions for each expression. Write the answer against each expression :

Expression from the poem	To suggest that
(a) Interior	
(b) Wade	
(c) Beach	

10th BAKDF-M19-2250

C-0-B

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Suggestions :

(i) An area of sand

(ii) The interior of the earth

(iii) Inside

(iv) An area of sand beside the sea

(v) Walk through water with difficulty

(vi) To go through water

1×3=3

3. Read the extract below and answer the questions given at the end :

Lord! you are my hope and trust,

Lead me to the way of truth

How long shall I dwell in ignorance !

Pour me the nectar of knowledge

Lend ear to my wailing and pleas,

Cure me of ills and pains;

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Turn Over

Questions :

(a) Who is the speaker and to whom are these lines addressed ?

(b) 'Lend ear to my wailing and pleas', explain.

(c) Give the meaning of :

(i) Ignorance

(ii) Nectar

2+2+1=5

4. Read the passage below and answer the questions given at the end :

I get along pretty well with all my teachers. There are nine of them, seven men two women. Mr. Keesing, the old fogey who teaches maths, was annoyed with me for ages because I talked so much. After several warnings, he assigned me extra homework. An essay on the subject, 'A chatter box'. A chatter box what can you write about that ? I'd worry about that later, I decided. I jotted down the title in my notebook, tucked it in my bag and tried to keep quiet.

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C-0-B



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Questions :

(a) Give the antonyms of the following :

(i) Pretty

(ii) Later

(iii) Quiet

(iv) Several

$\frac{1}{2} \times 4 = 2$

(b) Fill in the blanks suitably :

(i) 'The old fogey' here refers to

(ii) There were men and women engaged to teach the students.

(iii) It is difficult to write about a title such as $\frac{1}{2} \times 4 = 2$

5. Read the passage below and complete the sentences given at the end :

Anju Dua is one of the most well known coaches in gymnastics in the state of Haryana and a number of her students are today winning awards in many gymnastic competitions in the state and outside. An

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C-0-B



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excellent gymnast, Anju's achievements are far greater since she is a special person being both deaf and dumb. The story of Anju Dua (born in 1967) is the story of a person who did not allow her handicap to come in the way of her ambition. She competed in the national championships along with the rest of the participants, asking for no favours and won ten Gold, 23 Silver, and 11 Bronze during the three years from 1987 to 1990. In addition she was declared the Best Gymnast at the Senior Nationals held at Kottayam in 1989.

Questions :

Fill in the blanks suitably :

- (i) Anju's achievements are far greater
- (ii) Though being handicapped, she competed along with other participants in
- (iii) The most well known coach, Haryana state has produced is
- (iv) Anju was declared the best
- (v) Anju won many medals but never asked 1×5=5

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Section-B

(WRITING SKILLS)

6. (a) Saleem is a student secretary at Shining Star Higher Secondary School. His Principal asked him to write a notice asking all House in-charges and House captains to assemble in the office chamber of the Principal at 3 p.m. sharp on coming Saturday to discuss ways to improve the discipline in the School. 4
- (b) Your father's colleague called on your father while he was having a bath. He left a message asking your father to be at office at 9 a.m. sharp to attend the meeting. As you are leaving for school, write a message for your father to convey the same. 4
- (c) Price of all the essential commodities is touching the sky. Everybody is disturbed. Write a letter to the Editor of a newspaper expressing your concern about the sudden rise in prices of all the commodities. 5

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Turn Over

C-0-B



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- (d) Our Constitution guarantees equality to all its citizens but even after 70 years of freedom, women continue to suffer. Though women have risen in several fields, yet there is lot to be done. Write a paragraph on 'Stop Crime Against Women.' 7

Section-C

(LITERATURE)

7. (a) Why does Anne need to give a brief sketch of her family ? Who is Kitty ? Does she treat 'Kitty' as an insider or outsider ?

Or

Mammachi stands out as an independent and resilient woman. Do you agree ? How ? 5

- (b) How does Mr. Bannet react to the plan designed by his wife ?

Or

How did Mendela's understanding of freedom change with age and experience ? 5

10th BAKDF-M19-22500

C-0-B



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- (c) What was the curious episode that took place in the Clergyman's study ?

Or

What does 'The Ghat of the only world' mean ?

5

8. (a) The poet draws his Miracles from Nature. List any *five* Miracles ?
(Miracles)

Or

Do you think 'Speak-up' is an effort of the poet to give voice to the voiceless ? How ?
(Speak-up) 3

- (b) Why is the poet's love different from those who also loved his beloved ? <https://www.jkboseonline.com> (When you are old)

Or

How does the poet describe the Snowdrop's head ?

(Snowdrop) 3

10th BAKDF-M19-22500-B

C-0-B

Turn Over



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- (c) Comment on the imagery used by the poet in the poem 'An Evening Wet With Rain'.

Or

Driving from my Parent's home to Cochin last Friday morning,

I saw my mother beside me,

Doze, open mouthed, her face ashen like that
of a corpse and realised with pain

That she was as old as she looked but soon

What is the poetic device used in these lines ?

4

9. Give the character sketch of Matilda.

Or

Love and encouragement make the impossible possible. Justify the statement in the light of Bholi's story.

5

10. Sketch the character of 'Chubukov'.

Or

Sketch the character of Lomov. What part does he play in the drama ?

6

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C-0-B



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Section-D

(GRAMMAR)

11. (a) Complete the dialogue suitably :

Two friends on meeting each other after two years.

Akhtar : Hi Shakeel ! What a great surprise !

Shakeel : Really a great I never expected to see you here.

Akhtar : What about your family ?

Shakeel : Thank God,

Akhtar : Where are you going ?

Shakeel : I am going Delhi to meet my cousin.

Akhtar : What is your cousin doing there ?

Shakeel : He is

Akhtar : Wow! a great news.

Shakeel : I have a short stay at Delhi but leaving for Bombay by next flight.

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Akhtar : When back ?

Shakeel : After one month. I have to there.

Akhtar : Is your cousin staying there ?

Shakeel : Yes, he for the last 5 years. $\frac{1}{2} \times 6 = 3$

(b) Edit the un-edited paragraph :

Some families show affection and attachment

towards their children.....

by giving to them pocket money

These families or parents did not know

What those children do with the money

They get from their parents.

These children mix to other children

and get habitual with bad habits

$\frac{1}{2} \times 8 = 4$

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(c) Re-arrange the words/phrases to make meaningful sentences :

(i) Mrs. Hall/the room/haunted/was/convinced/that/was

(ii) patience/paper/people/more/has/than

(iii) prefer/dishonour/I/death/would/to

(iv) reap/sow/will/you/as/you/so

(v) not/fear/just/and/be

(vi) eaten/he/up/is/pride/with 1/2×6=3

(d) Change the narration of the following sentences :

(i) He said, 'I am unwell'.

(ii) 'Please wait here till I return', he said to me. 1×2=2

(e) Fill in the blanks with appropriate modals :

(i) She drive but she hasn't got a car.

(ii) We obey the law of the land. 1/2×2=1



(f) Fill in the blanks with suitable articles :

(i) She got employment in blank.

(ii) Cloth is sold by metre. $\frac{1}{2} \times 2 = 1$

(g) Match the words/phrases in Column 'A' with their meaning in Column 'B' below :

Column 'A'

Column 'B'

(i) Make up for

(a) To happen as planned

(ii) Persuade

(b) To have good relationship

(iii) Come off

(c) Compensate

(iv) Get on

(d) Motivate

$\frac{1}{2} \times 4 = 2$

(h) Fill in the blanks with appropriate homonyms :

(i) She turned when she lifted the of water. (Pail/Pale)

(ii) They were not to enter though they spoke (aloud/allowed)

(iii) Is it to charge extra..... (fair/fare) $1 \times 3 = 3$

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C-0-B



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(i) Join the following sentences by changing one of them into a relative clause :

(i) He met a boy. The boy was very young.

(ii) A woman lives next door. She is a doctor.

(iii) A bus goes to Nishat. It runs every hour. 1×3=3

(j) Punctuate the following :

the judge said to the prisoner you have confessed your fault
and your punishment will be light in prison think of your past
life and resolve to live a better life when you are released 3

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C-0-B



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A-3-Y

Roll No.....

Total No. of Questions : 20]

[Total No. of Pages

XKDARO/N19

24603-Y

MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 100

1. In each of the following write down the correct answer on your answer-book from the four given answers :

(i) H.C.F. of 26 and 91 is :

(A) 14

(B) 26

(C) 182

(D) 13

(ii) Zeroes of the quadratic polynomial $x^2 - 2x - 8$ are :

(A) 2, -4

(B) -2, 4

(C) -2, -4

(D) 2, 4

Turn Over

XKDARO/N19-24603-Y
A-3-Y



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(iii) 8th term of an A.P

10, 7, 4,

is :

(A) -17

(B) -8

(C) -10

(D) -11

(iv) A card is drawn from a pack of 52 cards. What is the probability of getting a king ?

(A) $\frac{1}{4}$

(B) $\frac{1}{13}$

(C) $\frac{1}{2}$

(D) $\frac{1}{26}$

(v) Volume of a right circular cone is :

(A) $\frac{4}{3}\pi r^3$

(B) $\frac{1}{3}\pi r^2 h$

(C) $\pi r l$

(D) $\pi r^2 h$

(vi) The number of tangents to a circle drawn from a point outside the circle is :

(A) 1

(B) 2

(C) 3

(D) Infinite

! r=2

XKDARO/N19-24603-Y
A-3-Y



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2. Evaluate :

$$\frac{\tan 65^\circ}{\cot 25^\circ}$$

3. Find the distance between the points (a, b) and $(a, -b)$

4. From a point 'Q', the length of the tangent to a circle is 24 cm and the distance of 'Q' from the centre is 25 cm. Find the radius of the circle.

5. In an A.P., $a = 2$, $d = 8$, $S_n = 90$. Find ' n ' and a_n

6. Given that H.C.F. $(306, 657) = 9$. Find L.C.M.

7. The sum of the digits of two-digit number is 9. Also nine time this number is twice the number obtained by reversing the order of the digits. Find the number. <https://www.jkboseonline.com>

8. Solve the following pair of linear equation by elimination method

$$3x + 4y = 10 \text{ and } 2x - 2y = 2$$

9. Divide :

$$x^4 - 3x^2 + 4x + 5 \text{ by } x^2 + 1 - x$$

Turn Over

XKDARO/N19-24603-Y

A-3-Y

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10. A die is thrown once. Find the probability of getting :

- (i) a prime number
- (ii) an even number
- (iii) an odd number
- (iv) a number lying between 2 and 6

4

11. Find the roots of the quadratic equation $2x^2 + x - 4 = 0$ by the method of completing the square.

Or

Find the value of k for the quadratic equation $2x^2 + kx + 3 = 0$, so that it has two equal roots.

6

12. The altitude of a right triangle is 7 cm less than its base. If the hypotenuse is 13 cm. Find the other two sides.

Or

The diagonal of a rectangular field is 60 meters more than the shorter side. If the longer side is 30 meters more than the shorter side. Find the sides of the field.

6

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A-3-Y

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13. Prove that the ratio of the areas of two similar triangles is equal to the square of the ratio of their corresponding sides.

Or

ABCD is a trapezium in which $AB \parallel DC$ and its diagonals intersect each other at a point O. Show that :

$$\frac{AO}{BO} = \frac{CO}{OD}$$

6

14. BL and CM are the medians of a triangle ABC, right angled at A. Prove that :

$$4(BL^2 + CM^2) = 5BC^2$$

Or

D and E are the points on the sides CA and CB respectively of a triangle ABC right angled at C. Prove that $AE^2 + BD^2 = AB^2 + DE^2$.

6

15. Find the ratio in which line segment joining A (1, -5) and B (-4, 5) is divided by the X-axis. Also find the co-ordinates of the point of division.

Or

Find the area of the quadrilateral whose vertices, taken in order are (-4, -2), (-3, -5), (3, -2) and (2, 3).

6

Turn Over

XKDARO/N19-24603-Y
A-3-Y



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(6)

16. If $\sin 3A = \cos (A - 26^\circ)$, where $3A$ is an acute angle, find 'A'.

Or

Prove that :

$$\frac{\cos A}{1 + \sin A} + \frac{1 + \sin A}{\cos A} = 2 \sec A$$

6

17. The angles of depression of the top and the bottom of an 8 meters tall building from the top of a multi-storeyed building are 30° and 45° respectively. Find the height of multi-storeyed building and the distance between two buildings.

Or

Prove that :

$$\frac{\cos A - \sin A + 1}{\cos A + \sin A - 1} = \operatorname{cosec} A + \cot A$$

7

18. Prove that the parallelogram circumscribing a circle is a Rhombus.

Or

Two concentric circles are of radius 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle.

7

XKDARO/N19-24603-Y

A-3-Y



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19. Draw a triangle ABC with side BC = 7 cm, $\angle B = 45^\circ$, $\angle A = 105^\circ$.
Then, construct a triangle whose sides are $\frac{4}{3}$ times the corresponding sides of triangle ABC.

Or

Draw a circle of radius 6 cm. From a point 10 cm away from its centre, construct a pair of tangents to the circle and measure their lengths.

20. A toy is in the form of a cone of radius 3.5 cm mounted on a hemisphere of same radius. The total height of a toy is 15.5 cm. Find the total surface area of the toy.

Or

The slant height of a frustum of a cone is 4 cm and the perimeters (circumferences) of its two circular ends are 18 cm and 6 cm. Find the curved surface area of the frustum.

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C-5-C

Roll No.....

Total No. of Questions : 18]

[Total No. of Printed Pages :

SSERKDO18

20205-C

SCIENCE

(Physics, Chemistry & Life Science)

Time : 3 Hours]

[Maximum Marks : 70]

Section-A

(PHYSICS)

(Long Answer Type Questions)

1. Draw the ray diagrams and find the position, size and nature of image formed in case of a convex lens when object is placed (a) in between focus and twice the focus (b) in between optical centre and focus. Mark the positions of object and image in the diagram.

OR

An object 4 cm in size is placed at 25 cm in front of a concave mirror of focal length 15 cm. At what distance from the mirror should a screen placed in order to obtain a sharp image ? Find the nature and size of image formed.

(Short Answer Type Questions)

2. Define power of accommodation. What is the far point and near point of the human eye with normal vision ?

Or

What is Hypermetropin ? I

is corrected.



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3. Define potential difference. Give its units and define it.

OR

Draw the symbols of some commonly used components in circuit diagram (only eight).

4. What is Solenoid ? How does a solenoid behave like a magnet?

OR

How will you prove that current carrying conductor produces the magnetic field ? Draw the diagram.

(Very Short Answer Type Questions)

5. (i) Name four types of energy that we get from ocean.
- (ii) Magnification produced by a plane mirror is +1. What does this mean?
- (iii) Name the types of mirrors used in the following situations :
- (a) Head lights of a car
- (b) Side/rear view mirror of a vehicle

(Multiple Choice Questions)

6. (i) A person cannot see the objects, beyond 1.2 m distinctly. The corrective lens used to restore proper vision is : <https://www.jkboseonline.com>
- (a) concave lens
- (b) convex lens
- (c) cylindrical lens
- (d) bifocal lens
- (ii) Which of the following is not an insulator ?
- (a) Plastic
- (b) Rubber



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(c) Graphite

(d) Diamond

(iii) The main source of energy on the earth is :

(a) Coal

(b) Sun

(c) Petroleum

(d) Natural Gas

(iv) Which of the following terms does not represent electric power in a circuit ?

(a) I^2R

(b) IR^2

(c) VI

(d) V^2/R

Section-B

(CHEMISTRY)

(Long Answer Type Questions)

7. Describe the important chemical properties of carbon compounds. Write the equations for each reaction.

Or

What are soaps and detergents ? Explain the mechanism of cleaning action of soaps and detergents.

(Short Answer Type Questions)

8. Write the balanced chemical equations for the following reactions:



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(i) Solution of barium chloride and sodium sulphate reacts in water to give barium sulphate and sodium chloride.

(ii) Sodium hydroxide solution reacts with hydrochloric acid to produce sodium chloride and water.

Or

Describe displacement and double displacement reactions. Give examples of each.

9. Give the reaction of metals with acids and salts. Give examples in each case.

Or

How copper is refined by the process of electrolytic refining ? Draw the diagram of electrolytic bath.

10. How can pH change in mouth cause tooth decay and how is it prevented ?

OR

How washing soda is Obtained ?

(Very Short Answer. Type Question)

11. (i) Write the two properties of carbon which lead to huge number of Carbon Compounds. <https://www.jkboseonline.com>

(ii) What would you observe when zinc is added to a solution of iron sulphate ? Write the chemical reaction that takes place.

(iii) Write the two limitations of Mendeleev's periodic table.

(Multiple Choice Questions)

12. (i) Which of the following statement is not correct, when going from left to right across the periodic table ?

(a) the elements become less

(b) The number of electrons



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- (c) The atoms lose electrons more easily
- (d) The oxides of elements become more acidic
- (ii) $CaCO_3 \xrightarrow{\Delta} CaO + CO_2$, this reaction is an example of :
- (a) combination reaction
- (b) displacement reaction
- (c) double displacement reaction
- (d) decomposition reaction
- (iii) Which of the following elements is not metalloid?
- (a) Boron
- (b) Calcium
- (c) Germanium
- (d) Silicon
- (iv) Which of the following acids is used as a compound powder :
- (a) Carbonic acid
- (b) Acetic acid
- (c) Tartaric acid
- (d) Oxalic acid

Section - C

(LIFE SCIENCE)

(Long Answer Type Questions)

13. Describe briefly the process of digestion in man.

Or

What is Excretion ? Describe with well labelled diagram.



Diagram of the digestive system of human beings along

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(Short Answer Type Questions)

14. What is reflex action ? Write the role of brain in reflex action.

Or

Draw the structure of neuron and explain its function.

15. Describe the human female reproductive system.

Or

Name the different modes of asexual reproduction in plants and explain one of them.

16. What is Biological Magnification? Will the levels of this magnification be different at different levels of the ecosystem?

Or

Why is damage to the ozone layer a cause for concern are being taken to limit this damage

(Very Short Answer Type Questions)

17. (i) Define homologous organs. Give an example.

(ii) What do you understand by re-use of material ? Give example.

(iii) Why do we need to manage our resources ?

(Multiple Choice Questions)

18. (i) Which of the following parts of Bryophyllum plant is vegetative ?

(a) leaves

(b) root

(c) stem

(d) flower



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(ii) The male sex human chromosome is represented by:

- (a) xx
- (b) yy
- (c) xy
- (d) None of these

(iii) The ability of an organism to grow or replace the lost body part is known as :

- (a) grafting
- (d) regeneration
- (c) layering
- (d) budding

(iv) In evolutionary terms, we have more common with :

- (a) a Chinese school boy
- (b) a chimpanzee
- (c) a spider
- (d) bacterium

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C-5-Z

Roll No.....

Total No. of Questions : 18]

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XWZJDRO/N19

24705-Z

SCIENCE

(Physics, Chemistry & Life Science)

Time : 3 Hours]

[Maximum Marks : 84

Section-A

(PHYSICS)

(Long Answer Type Questions)

1. State Ohm's law and describe a method to find the resistance of a coil by using a voltmeter and an ammeter. Also draw the circuit diagram.

Or

What is the resultant resistance when a number of resistances are connected in :

(a) Series

(b) Parallel

6

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C-5-Z

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(Short Answer Type Questions)

4 each

2. Draw the well labelled diagram of an eye of human being.

Or

What are common defects of vision ? Name them.

3. Write the uses of concave and convex mirrors.

Or

Write the sign conventions used for reflection by mirror.

4. Draw the ray diagram and find the nature, position and relative size of image formed by a concave lens at:

- (i) infinity
- (ii) between optical centre and infinity

Or

An object is placed at a distance of 10 cm from a convex mirror of focal length 15 cm. Find the position and nature of the image formed.

(Very Short Answer Type Questions)

2 each

5. (i) Write the *two* differences between convex and concave lens.
(ii) Draw a labelled diagram of an electric motor.
(iii) Name *two* uses biogas.

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C-5-Z



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(Multiple Choice Questions)

1 each

6. (i) Which of the following is not an example of a bio-mass energy source ?
(A) Wood (B) Gobar gas
(C) Nuclear energy (D) Coal
(Choose the correct answer)
- (ii) Hypermetropia is corrected by :
(A) Convex lens (B) Concave lens
(C) Cylindrical lens (D) None of these
(Choose the correct answer)
- (iii) At the time of short circuit the current in the circuit :
(A) Decreases (B) Increases
(C) Does not change (D) Vary continuously
(Choose the correct answer)
- (iv) An electric motor converts :
(A) Electric energy into mechanical energy
(B) Mechanical energy into electric energy
(C) Electric energy into magnetic energy
(D) Magnetic energy into mechanical energy
(Choose the correct answer)

Section-B

(CHEMISTRY)

(Long Answer Type Questions)

7. What is an isomerism ? How many structural isomers can you draw for pentane ?

Or

Describe the substitution and addition reactions as chemical properties of carbon compound.

6

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(Short Answer Type Questions)

4 each

8. Write two methods for obtaining a metal from its oxide ore.

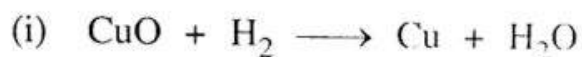
Or

Discuss any *four* physical properties of metals.

9. Write the steps involved in writing a chemical equation.

Or

Identify the substances that are oxidised and the substances that are reduced in the following reactions : <https://www.jkboseonline.com>



10. Write the uses of washing soda.

Or

How do acids and base react metals ? Write the reaction for each reaction.

(Very Short Answer Type Questions)

2 each

11. (i) Name any *four* elements with filled outermost shells.
(ii) In the modern periodic table which are the metals among the first ten elements ?
(iii) What is homologous series ?

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C-5-Z



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(Multiple Choice Questions)

1 each

12. (i) Acid turn methyl orange :

(A) Green

(B) Blue

(C) Red

(D) Black

(Choose the correct answer)

(ii) Addition of oxygen to a substance in a chemical reaction is termed as :

(A) Reduction

(B) Oxidation

(C) Displacement

(D) None of these

(Choose the correct answer)

(iii) The only element among non-metal that exists in liquid state at room temperature is :

(A) Chlorine

(B) Bromine

(C) Sulphur

(D) Phosphorus

(Choose the correct answer)

(iv) Which metal is kept immersed in kerosene oil ?

(A) Sodium

(B) Silver

(C) Gold

(D) Zinc

(Choose the correct answer)

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C-5-Z

Turn Over



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Section-C

(LIFE SCIENCE)

(Long Answer Type Questions)

13. What is Nutrition ? What are the differences between autotrophic and heterotrophic nutrition ?

Or

Describe the structure and function of Nephron. Draw the labelled diagram.

6

(Short Answer Type Questions)

4 each

14. How is sex of a child determined in human beings ?

Or

What are the different ways in which individuals with a particular trait may increase in a population ?

15. Name the Hormones secreted by Thyroid, Pancreas, Ovary and Testis.

Or

Describe the structure of Neuron with the help of labelled diagram.

16. What is Vegetative propagation ? Also give its advantage.

Or

Draw a labelled diagram of longitudinal section of flower.

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C-5-Z



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(Very Short Answer Type Questions)

2 each

17. (i) Define Regeneration with an example.
(ii) Explain the term water harvesting.
(iii) Define Food chain and Food web.

(Multiple Choice Questions)

1 each

18. (i) The term ecosystem was introduced by :
- (A) Miller
 - (B) Haldane
 - (C) Tansley
 - (D) Darwin
- (Choose the correct answer)
- (ii) Which of the following constitute a food chain ?
- (A) Grass, Wheat and Mango
 - (B) Grass, Goat and Human
 - (C) Goat, Cow and Elephant
 - (D) Grass, Fish and Goat
- (Choose the correct answer)

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(iii) Greatest problem for water conservation is to reduce the amount of :

(A) Runoff water

(B) Evaporation

(C) Precipitation

(D) Ground water

(Choose the correct answer)

(iv) River Jhelum originate from :

(A) Chashma Verinag

(B) Wuller lake

(C) Dal lake

(D) None of these

(Choose the correct answer)

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C-5-Z



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C-3-A

Roll No.

Total No. of Questions : 20]

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SSERKDO18

20203-A

MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 100

Note :- Attempt all questions.

1. Choose the correct answer :

(i) The number 1.732 is :

- (a) an integer
- (b) a rational number
- (c) an irrational number
- (d) none of these

(ii) The zeroes of the polynomial $x^2 - \sqrt{2}x - 12$ are :

- (a) $\sqrt{2}, -\sqrt{2}$
- (b) $3\sqrt{2}, -2\sqrt{2}$
- (c) $-3\sqrt{2}, 2\sqrt{2}$
- (d) None of these

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C-3-A

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(iii) The common difference of the A.P.

$$\frac{1}{P}, \frac{1-P}{P}, \frac{1-2P}{P}, \dots$$

is :

(a) 1

(b) ~~1~~

(c) -P

(d) None of these

(iv) Draw an angle of 45° with the help of compass and ruler.

(v) Total surface area of the frustum of a cone is :

(a) $\pi l(r_1 + r_2)$

(b) $\pi r l$

(c) $\pi l(r_1 + r_2) + \pi r_1^2$

(d) None of these

(vi) The probability of getting 8 in a single throw of a die is

(a) 0

(b) 1

(c) -1

(d) None of these

2. From a point A the length of the tangent to a circle is 24 cm and the distance of A from the centre is 25 cm. Find the radius of the circle.

3. Find the distance between the points A(-a, -b) and B(a, b).

4. Express the trigonometric ratio's $\sin A$ and $\tan A$ in terms of $\cot A$.

5. Define Algorithm and use Euclid's division algorithm to find the H.C.F. of 135 and 18

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8. Find the zeroes of the polynomial $x^2 - 2x - 8$ and also verify the relationship between the zeroes and the co-efficients. (4) 4
- How many three-digit numbers are divisible by 7 ? 4
9. Solve the following pair of linear equations by substitution method :

$$s - t = 3$$

$$\frac{s}{3} + \frac{t}{2} = 6$$

9. For which values of P does the pair of equations

$$4x + Py + 8 = 0$$

and

$$2x + 2y + 2 = 0$$

have unique solution.

10. One card is drawn from a well-shuffled deck of 52 cards. Calculate the probability that the card will :

(i) be an ace

(ii) not be an ace

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- 11 The altitude of a right triangle is 7 cm less than its base. If the hypotenuse is 13 cm, find the other two sides.

Or

Find the roots of the quadratic equation $2x^2 - 5x + 3 = 0$ by the method of completing the square.

- 12 Find the discriminant of the quadratic equation $9x^2 - 6x + 1 = 0$ and hence find the nature of its roots. Find them if they are real.

Or

The difference of squares of two numbers is 180. The square of the smaller number is 8 times the larger number. Find the two numbers.

- 13 ABCD is a trapezium in which $AB \parallel DC$ and its diagonals intersect each other at a point O. Show that :

$$\frac{AO}{BO} = \frac{CO}{DO}$$

Or

D, E and F are respectively the mid-points of sides AB, BC and CA of ΔABC . Find the ratio of areas of ΔDEF and ΔABC .

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C-3-A

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14. In a triangle if square of one side is equal to the sum of the squares of the other two sides, prove that the angle opposite to the first side is a right angle.

Or

PQR is a triangle right angled at P and M is a point on QR such that PM is perpendicular to QR. Show that :

$$PM^2 = QM \cdot MR$$

15. Find a relation between x and y such that the point (x, y) is equidistant from the points $(3, 6)$ and $(-3, 4)$.

Find the co-ordinates of the points of trisection of the line segment joining $(4, -1)$ and $(-2, -3)$.

16. Prove that :

$$\frac{\sin \theta - 2 \sin^3 \theta}{2 \cos^3 \theta - \cos \theta} = \tan \theta$$

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(6)

Or

Given $\sec \theta = \frac{13}{12}$. Calculate all other trigonometric ratios. 6

17. From a point on the ground, the angle of elevation of the bottom and the top of a transmission tower fixed at the top of a 20 m high building are 45° and 60° respectively. Find the height of the tower.

Or

Evaluate :

$$\frac{\sin 30^\circ + \tan 45^\circ - \operatorname{cosec} 60^\circ}{\sec 30^\circ + \cos 60^\circ + \cot 45^\circ}$$

18. Prove that the lengths of the tangents drawn from an external point to a circle are equal.

Or

Prove that the tangents drawn at the ends of a diameter of a circle are parallel. <https://www.jkboseonline.com>

19. Draw a pair of tangents to a circle of radius 5 cm which are inclined to each other at an angle of 60° .

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Or

Draw a triangle ABC with sides $BC = 7$ cm, $\angle B = 45^\circ$, $\angle A = 105^\circ$

Then construct a triangle whose sides are $\frac{4}{3}$ times the corresponding sides of $\triangle ABC$.

7

20. A metallic sphere of radius 4.2 cm is melted and recast into the shape of a cylinder of radius 6 cm. Find the height of the cylinder.

Or

A container opened from the top and made up of a metal sheet, is in the form of a frustum of a cone of height 16 cm with radii of its lower and upper ends 8 cm and 20 cm respectively. Find the cost of the milk which can completely fill the container at the rate of Rs 20 per litre.

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Roll No.....

Total No. of Questions : 24]

[Total No. of Printed Pages : 8

XBAWZJ17

13604-B

SCIENCE

(Physics, Chemistry and Life Science)

Time : 3 Hours]

[Maximum Marks : 84

Section-A

(PHYSICS)

(Long Answer Type Questions)

1. What is Refraction ? Explain the process of refraction through a glass slab with suitable diagram.

Or

(a) Define magnification in case of lenses.

(b) A concave lens of focal length 15 cm forms an image at 10 cm.

from the lens. How far is the object placed from the lens? 6

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N-4-B

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(Short Answer -Type Questions)

4 each

2. A person is not able to see far off objects clearly. Name the defect the person is suffering from. How is it corrected ? Draw the ray diagram.

Or

What is meant by scattering of light ? Explain Tyndall effect.

3. Define electric power. An electric heater of resistance 8 ohms draws 1.5 amperes current from the mains in two hours. Calculate the amount of heat produced.

Or

Define electric current. A current of 0.5 A is drawn by a filament for 10 minutes. Calculate the amount of charge that flows through the circuit.

4. What is Solenoid ? How does it behave like a bar magnet ?

Or

State the rules to determine :

- (a) Magnetic field produced around a straight conductor carrying current.
- (b) Force produced by a current carrying wire placed in between magnetic field.

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N-4-B

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(Very Short Answer Type Questions)

2 each

5. Write units of power in case of lenses and define it.
6. Why are copper and aluminium wires usually used for electricity transmission lines ?
7. What is Biogas ? How is it produced ?

(Multiple Choice Questions)

1 each

8. Choose the correct/most appropriate answer out of the following four alternatives given against each item and write it in your answer-book :

(i) A ray of light passes from air to water it :

- (a) bends away from normal
- (b) bends towards normal
- (c) travels in the same direction
- (d) reflects back

(ii) An object is placed in between the pole and focus of a concave mirror. The image formed is :

- | | |
|------------------------|-----------------------|
| (a) smaller and real | (b) larger and real |
| (c) larger and virtual | (d) small and virtual |

(iii) Which of the following colour of the sunlight bends most when passed through a prism ?

- | | |
|----------|------------|
| (a) Red | (b) Indigo |
| (c) Blue | (d) Violet |

(iv) Which of the following energy is not derived from the sun ?

- | | |
|------------------|-----------------------|
| (a) Tidal energy | (b) Geothermal energy |
| (c) Wave energy | (d) Wind energy |

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Section-B
(CHEMISTRY)

(Long Answer Type Questions)

9. How does ethanoic acid react with alcohols, bases, carbonates and bicarbonates ? Write equations for each reactions.

Or

Define covalent bond. Draw the electronic dot structures of ethanoic acid, hydrogen sulphide, propanone and fluorine.

6

(Short Answer Type Questions)

4 each

10. Why decomposition reactions are called the opposite of combination, reactions ? Give examples and write equations of each reaction.

Or

What is a chemical equation ? How will you write a chemical equation ?

11. Explain the process of roasting. Illustrate your answer with examples.

Or

Differentiate between metal and non-metal on the bases of chemical properties (only four).

12. How do acids react with bases and metals ? Give the equations for each reaction.

Or

How sodium hydroxide is prepared ? Give the uses of sodium hydroxide.

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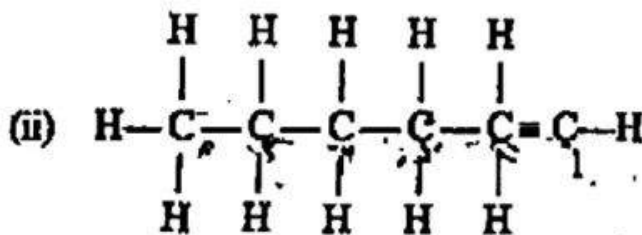
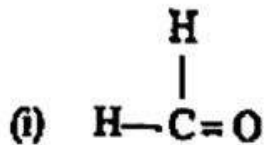


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(Very Short Answer Type Questions)

2 each

13. Write the two unique properties of carbon that leads to the huge number of carbon compounds. . .
14. Define concentration of ores.
15. Write the names of the following compounds :



(Multiple Choice Questions)

1 each

16. Choose the correct/most appropriate answer out of the following four alternatives given against each item and write it in your answer-book :

(i) The modern periodic table has prepared by :

(a) Newland

(b) Doberniener

(c) Mendeleev

(d) Henry Moseley

(ii) The valency of silicon is :

(a) 2

(b) 3

(c) 4

(d) 1

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(iii) For a decomposition reaction the energy is required in the form of :

- (a) Electricity
- (b) Heat
- (c) Light
- (d) All of the above

(iv) The chemical formula for washing soda is

- (a) Na_2CO_3
- (b) $\text{Na}_2\text{CO}_3 \cdot \text{H}_2\text{O}$
- (c) NaOH
- (d) $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$

Section-C

(LIFE SCIENCE)

(Long Answer Type Questions)

17. Describe the process of digestion in man.

Or

Describe the structure and function of nephron and draw the well labelled diagram.

6

(Short Answer Type Questions)

4 each

18. Explain the function of forebrain.

Or

What is chemical co-ordination ? Write the three important plant hormones and their function.

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N-4-B

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19. Explain biological magnification. Will the levels of this magnification be different at different levels of magnification ?

Or

What are biodegradable and non-biodegradable substances ? Give two ways in which non-biodegradable substances would affect the environment.

20. Why do we need to manage our resources ? Write the two factors which affect our resources.

Or

Why should we conserve forests and wildlife ?

(Very Short Answer Type Questions)

2 each

21. Write the two advantages of sexual reproduction over asexual reproduction. <https://www.jkbboseonline.com>
22. What are analogous organs ?
23. Why is D.N.A. copying an essential part for the process of reproduction ?

(Multiple Choice Questions)

1 each

24. Choose the correct/most appropriate answer out of four alternatives given against each item and write it in your answer-book :

(i) The fluid which make the transport of sperms easy is called

-
- (a) Seminal vesicle fluid (b) Prostatic fluid
- (c) Both (a) and (b) (d) Water

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(ii) The number of chromosome pairs in human is :

(a) 24 pairs

(b) 25 pairs

(c) 23 pairs

(d) 22 pairs

(iii) The forelimbs of man and birds are

(a) Homologous organs

(b) Analogous organs

(c) Vestigial organs

(d) None of the above

(iv) Hydra reproduces by

(a) Budding

(b) Vegetative propagation

(c) Fission

(d) Fragmentation

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N-4-B

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E-1-A

Roll No.....

Total No. of Questions : 16]

[Total No. of Printed Pages : 15

XKDAR21

5501-A

URDU

Time : 3 Hours]

[Maximum Marks : 80

حصہ ” الف “

۱۔ درج ذیل عبارت کو غور سے پڑھئے اور اس کے آخر پر دی گئی خالی جگہوں

۵ x ۱ = ۵

کو اسی عبارت سے چن کر مناسب الفاظ سے پُر کیجئے۔

تاج محل کا شمار دنیا کے آٹھ عجوبوں میں ہوتا ہے۔ یہ اتر پردیش

کے شہر آگرہ میں دریائے جمنا کے کنارے واقع ہے۔ سفید سنگ مرمر

سے تعمیر یہ روضہ اپنی محبت کی نشانی کے طور پر پانچویں مغل حکمران شاہ

جہاں نے تعمیر کرایا تھا۔ لیکن دنیا کی خوبصورت، عجوبہ روزگار اور محبت

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(2)

کی نشانی کو آج کل متعدد خطرات کا سامنا ہے۔ یہ عمارت تین انچ
زمین میں دھنس گئی ہے۔ دوسرا خطرہ یہ ہے کہ ماحول کی آلودگی اس
کے حسن کے لئے خطرہ بن گیا ہے۔

(i) تاج محل کس دریا کے کنارے..... واقع ہے۔

(ii) تاج محل کو..... نے تعمیر کروایا۔

(iii) تاج محل کا..... دنیا کے آٹھ عجوبوں میں ہوتا ہے۔

(iv) آگرہ، ریاست..... کا ایک شہر ہے۔

(v) ماحولیاتی آلودگی سے تاج محل کا..... متاثر ہو رہا ہے۔

۲۔ درج ذیل شعری جز کو غور سے پڑھئے اور آخر پر پوچھے گئے سوالات کے

جوابات میں سے درست جواب چن لیجئے۔

۵×۱=۵

آغوشِ لحد میں جب کہ سونا ہوگا

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جز خاک نہ تکیہ نہ بچھونا ہوگا

تنہائی میں آہ کون ہووے گا انیس

ہم ہوں گے اور قبر کا کونا ہوگا

(i) ”لحد“ سے کیا مراد ہے؟

(الف) میدان -

(ب) قیامت -

(ج) قبر -

(د) موت -

(ii) یہ اشعار کس شاعر کے ہیں؟

(الف) مرزا دبیر -

(ب) میر انیس -

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(4)

(ج) اقبال۔

(د) غالب۔

(iii) یہ اشعار کس صنفِ سخن سے تعلق رکھتے ہیں؟

(الف) قصیدہ۔

(ب) غزل۔

(ج) مثنوی۔

(د) رباعی۔

(iv) ان اشعار میں شاعر نے کس کا نقشہ کھینچا ہے؟

(الف) زندگی کا

(ب) موت کا۔

(ج) جنت کا۔

(د) جہنم کا۔

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(v) قبر میں کون سی چیز انسان کے ساتھ ہوتی ہے؟

(الف) تکیہ۔

(ب) بچھونا۔

(ج) سونا۔

(د) خاک۔

۳۔ درج ذیل عبارت کو غور سے پڑھنے کے بعد آخر پر دیئے گئے سوالات کے مختصر

۵ × ۱ = ۵

جواب لکھئے۔

شوریدہ کاشمیری علاقہ شوپیان کے ایک علمی گھرانے میں

۱۹۲۳ء میں پیدا ہوئے۔ وہ ایک پیدائشی شاعر تھے جن کی شاعری آمد

کی سچائی سے مزین ہے۔ انھوں نے ادب کی کئی اصناف میں طبع

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آزمائی کی۔ جوش جنوں، جذب دروں (شعری مجموعے) خطاب

خامہ (ادبی خطوط کا مجموعہ) کلمات نبوی (احادیث نبوی کی منظوم

شرح) اور چند متفرق نوعیت کے مضامین و مقالات پر ان کا ادبی

سرمایہ مشتمل ہے۔ انھوں نے اردو زبان و ادب کے علاوہ فارسی،

عربی اور انگریزی ادبیات کا بھی گہرا مطالعہ کیا تھا۔

(i) کلمات نبوی کتاب کا موضوع کیا ہے؟

(ii) شوریدہ کاشمیری کب پیدا ہوئے؟

(iii) شوریدہ کاشمیری نے کس کس زبان میں ادبی مطالعہ کیا؟

(iv) شوریدہ کاشمیری کے دو شعری مجموعوں کا نام بتائیے۔

(v) کتاب ”خطاب خامہ“ کیا ہے؟

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(7)

حصہ ”ب“

۴۔ (الف) درج ذیل الفاظ کو جملوں میں اس طرح استعمال کیجئے کہ ان کی

۳ تذکیر و تانیث واضح ہو جائے۔

(i) کتاب۔

(ii) دی۔

(iii) رومال۔

(ب) درج ذیل الفاظ کو جملوں میں اس طرح استعمال کیجئے کہ ان کا

۲ واحد یا جمع ہونا واضح ہو جائے۔

(i) اسباب۔

(ii) ورق۔

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۵۔ دیئے گئے حروف کی تعریف کیجئے اور مثالیں بھی دیجئے۔ (صرف دو) ۵

(i) حروف تاسف۔

(ii) حروف شرط۔

(iii) حروف ندا۔

۵×۱=۵

۶۔ ہدایات کے مطابق جواب لکھئے۔

(الف) ”کتنی خوبصورت عمارت ہے“

اس جملے میں لفظ ”خوبصورت“ کیا ہے؟

(i) فاعل۔

(ii) مفعول۔

(iii) اسم صفت۔۔

(iv) فعل۔

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(9)

(ب) ”میں نے سیب کھایا“

اس جملے میں ”سیب“ کیا ہے؟

(i) اسم فاعل۔

(ii) اسم مفعول۔۔

(iii) صفت۔

(iv) فعل۔

(ج) ”استاد بچوں کو پڑھا رہا ہے“

اس جملے میں ”استاد“ کیا ہے؟

(i) اسم فاعل۔

(ii) اسم مفعول۔

(iii) اسم صفت۔

فعا
(iv)

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(10)

”کیا شاندار عمارت ہے“ (د)

اس جملے میں ”شاندار“ کیا ہے؟

(i) اسم صفت -

(ii) اسم فاعل -

(iii) اسم مفعول -

(iv) اسم معرفہ -

”احمد نے کتے کو مارا“ (و)

اس جملے میں ”کتا“ کیا ہے؟

(i) اسم فاعل -

(ii) اسم مفعول -

(iii) اسم صفت -

(iv) اسم نکرہ -

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۲۔ درج ذیل محاورات میں سے صرف دو کو جملوں میں استعمال کیجئے۔

(i) اُلوسیدھا کرنا۔

(ii) قافیہ تنگ کرنا۔

(iii) ایک نہ سننا۔

۳۔ کسی ایک جملے کی ترکیب نحوی کیجئے اور جملے کا نام بھی لکھئے۔

(i) زمین گول ہے۔

(ii) مچھلی پانی میں تیر رہی ہے۔

حصہ ”ج“

۵۔ درج ذیل اصناف میں سے کسی ایک صنف پر روشنی ڈالئے۔

(i) ڈراما۔

(ii) ناول۔

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(iii) غزل۔

(iv) مرثیہ۔

۵

۱۰۔ درج ذیل درسی اسباق میں سے کسی ایک کا خلاصہ لکھئے۔

(i) عبرت۔

(ii) آسمان پھول اور لہو۔

(iii) اور مزاج دار لٹ گئی۔

۱۱۔ درج ذیل اشعار کی تشریح کیجئے اور شاعر کا حوالہ بھی دیجئے۔ (صرف

تین اشعار کی)

۲×۲=۴

(i) غم و غصہ رنج و اندوہ و حرمان

ہمارے بھی ہیں مہرباں کیسے کیسے

(ii) موت کا ایک دن معین ہے

نیند کیوں رات بھر نہیں آتی

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(iii) کون ہے جو نہیں ہے حاجت مند

کس کی حاجت روا کرے کوئی

(iv) تمناؤں میں الجھایا گیا ہوں

کھلونے دے کے بہلایا گیا ہوں

(v) ہر ایک رنگ میں کاٹیں گے ہم سزا ہی تھی

یہ زندگی کسی مفلس کی بددعا ہی تھی

(vi) ایک بھی موسم میرے اندر نہ تھا

اور آنکھوں میں کوئی منظر نہ تھا

۵

۱۲۔ درج ذیل سوالات میں سے صرف دو کے جواب لکھئے۔

(i) ملک صادق کون تھا اور شہزادے کے ساتھ اس کا کیا رشتہ تھا؟

(ii) محمد عاقل ججن کی چال کیوں نہ سمجھ سکا؟

(iii) دارونہ جی کا پنڈت چندر دھر کے ساتھ کیسا برتاؤ تھا؟

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۱۳۔ درج ذیل سوالات میں سے صرف دو کے جواب لکھئے۔

(i) حضرت محمد ﷺ کیا پیغام لے کر آئے؟

(ii) مفلس کو ہر وقت کس چیز کی فکر رہتی ہے؟

(iii) رام چندر جی کو دیکھ کر اس کی ماں کیوں رونے لگی؟

۱۴۔ درج ذیل میں سے کسی ایک ادیب یا شاعر کے حالاتِ زندگی تحریر کیجئے۔

(i) میرامن۔

(ii) علامہ اقبال۔

(iii) سر سید احمد خاں۔

(iv) میر تقی میر۔

حصہ ”د“

۱۵۔ اپنے اسکول کے پرنسپل کے نام فیس معاف کروانے کے لئے درخواست لکھئے۔

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K-3-Z

Roll No.

Total No. of Questions : 20] [Total No. of Printed Pages : 7 + Graph

XWZPA16

10003-Z

MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 100

1. Choose the correct answer from the four given answers and write the correct answer on your answer-book provided to you. $1 \times 6 = 6$

(i) H.C.F. of 336 and 54 is :

(a) ~~6~~

(b) 2

(c) 9

(d) None of these

(ii) Which of the following pattern of numbers is in A.P. ?

(a) $1^2, 3^2, 5^2, 7^2, \dots$

(b) 10, 8, 5, 1, \dots

~~(c)~~ 0, -4, -8, -12, \dots

(d) None of these

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(iii) The zeroes of the quadratic polynomial $x^2 - 3$ are :

(a) $\sqrt{3}$ and $\sqrt{3}$

(b) $-\sqrt{3}$ and $-\sqrt{3}$

(c) $\sqrt{3}$ and $-\sqrt{3}$

(d) None of these

(iv) A line segment of length 10 cm is divided in the ratio of 2 : 3, the measure of two parts in the given ratio respectively would be :

(a) 6 cm, 4 cm

(b) 4 cm, 6 cm

(c) 5 cm, 5 cm

(d) None of these

(v) Volume of cone is equal to :

(a) $\pi r^2 h$

(b) $\frac{1}{2} \pi r^2 h$

(c) $\frac{1}{3} \pi r^2 h$

(d) None of these

(vi) The probability of getting a prime number on throwing a die is :

(a) $\frac{1}{3}$

(b) $\frac{1}{2}$

(c) $\frac{1}{6}$

(d) None of these

2. Draw a circle and two lines parallel to a given line such that one is a tangent and the other, a secant to the circle.

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Find the area of a triangle formed by the points A(5, 2), B(4, 7) and C(7, -4). 2

Show that :

$$\tan 48^\circ \tan 23^\circ \tan 42^\circ \tan 67^\circ = 1 \quad 2$$

5. Check whether 6^n can end with the digit 0 for any natural number n . 4

6. Find the sum of the following A.P. :
2, 7, 12, to, 10 terms. 4

7. Solve the following pair of linear equations by the elimination method :

$$3x + 4y = 10$$

and

$$2x - 2y = 2 \quad 4$$

8. The difference between two numbers is 26 and one number is three times the other. Find them. 4

9. Divide the polynomial $p(x)$ by the polynomial $g(x)$ and find the quotient and remainder.

$$p(x) = x^4 - 5x + 6$$

$$g(x) = 2x - x^2 \quad 4$$

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10. A box contains 5 red marbles, 8 white marbles and 4 green marbles. One marble is taken out of the box at random. What is the probability that the marble taken out will be (i) red ? (ii) white ? (iii) not green ?
11. Find the roots of the quadratic equation, if they exist, by the method of completing the square :

$$2x^2 - 7x + 3 = 0$$

Or

Find the nature of the roots of the following quadratic equation. If the real roots exist, find them :

$$3x^2 - 4\sqrt{3}x + 4 = 0$$

12. The altitude of a right triangle is 7 cm less than its base. If the hypotenuse is 13 cm, find the other two sides.

Or

Sum of the areas of two squares is 468 m^2 . If the difference of their perimeters is 24 cm, find the sides of the two squares.

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K-3-Z

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13. If the line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio. Prove it.

Or

Diagonals of a trapezium ABCD with $AB \parallel DC$ intersect each other at the point O. If $AB = 2CD$, find the ratio of the areas of triangles AOB and COD.

6

14. BL and CM are medians of a triangle ABC right-angled at A. Prove that :

$$4(BL^2 + CM^2) = 5BC^2$$

Or

Prove that in a right triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides.

6

15. Find the area of a rhombus if its vertices are $(3, 0)$, $(4, 5)$, $(-1, 4)$ and $(-2, -1)$ taken in order.

Or

Find a relation between x and y such that the point (x, y) is equidistant from the point $(3, 6)$ and $(-3, 4)$.

6

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K-3-Z

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16. In ΔABC , right angled at B. $AB = 24$ cm, $BC = 7$ cm. Determine
 (i) $\sin A$, $\cos A$, (ii) $\sin C$, $\cos C$.

Or

If $\sin(A - B) = \frac{1}{2}$, $\cos(A + B) = \frac{1}{2}$, $0^\circ < A + B \leq 90^\circ$,

$A > B$, find A and B .

17. Prove that :

$$\frac{\tan \theta}{1 - \cot \theta} + \frac{\cot \theta}{1 - \tan \theta} = 1 + \sec \theta \operatorname{cosec} \theta$$

Or

- From a point on the ground, the angles of elevation of the bottom and the top of a transmission tower fixed at the top of a 20 m high building are 45° and 60° respectively. Find the height of the tower. 7
18. Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle.

Or

- Prove that the parallelogram circumscribing a circle is a rhombus. 7

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(7)

19. Draw a pair of tangents to a circle of radius 5 cm which are inclined to each other at an angle of 60° . Write its steps of construction.

Or

Draw a triangle ABC with side $BC = 7$ cm, $\angle B = 45^\circ$, $\angle A = 105^\circ$.

Then, construct a triangle whose sides are $\frac{4}{3}$ times the corresponding sides of ΔABC . Write its steps of construction.

20. A cylindrical bucket, 32 cm high and with radius of base 18 cm, is filled with sand. This bucket is emptied on the ground and a conical heap of sand is formed. If the height of the conical heap is 24 cm, find the radius and slant height of the heap.

Or

A toy is in the form of a cone of radius 3.5 cm mounted on a hemisphere of same radius. The total height of the toy is 15.5 cm. Find the total surface area of the toy.

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5501-C

URDU

Time : 3 Hours]

[Maximum Marks : 80

حصہ ” الف “

۱۔ درج ذیل عبارت کو غور سے پڑھئے اور اس کے آخر پر دی گئی خالی جگہوں

۵×۱=۵

کو اسی عبارت سے چُن کر مناسب الفاظ سے پُر کیجئے۔

اطفال ادب میں بچے کی آزادانہ شکل کا ابھرنا ضروری ہے جس

میں اس کی اپنی بات اپنی فکر اور منطقی انداز نظر آئے۔ اس کی مثال

پریم چند کی کہانی ” عید گاہ “ میں نظر آتی ہے جس میں ایک بچے کا اپنی

دادی کے تئیں حساس ہونا ابھر کر سامنے آتا ہے۔ دوسری طرف حامد

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(3)

کوئی گدھا کہے اسے ٹھہرا دے کوئی بیل

کپڑے پھٹے تمام بڑے بال پھیل پھیل

منہ خشک دانت زرد بدن پر جما ہے میل

سب شکل قیدیوں کی بناتی ہے مفلسی

(i) افلاس کے کیا معنی ہے؟

(الف) غربت۔

(ب) مفلسی۔

(ج) غریب۔

(د) نادار۔

(ii) مفلس کی شکل کیسی بنتی ہے؟

(الف) قیدیوں کی۔

(ب)



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(4)

(ج) رہزن کی۔

(د) ڈاکو کی۔

(iii) یہ اشعار کس شاعر کے ہیں؟

(الف) نظیر اکبر آبادی۔

(ب) حالی۔

(ج) اقبال۔

(د) چکبست۔

(iv) مفلس کو کن جانوروں سے تشبیہ دی جاتی ہے؟

(الف) گدھا اور تیل۔

(ب) بندر اور کتا۔

(ج) بھینس اور گائے۔

(د) بلی اور بھیڑ۔

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(5)

(v) مفلس کے چہرے کی صورت کیسی ہوتی ہے؟

(الف) منہ خشک دانت زرد۔

(ب) منہ خشک دانت کالے۔

(ج) دانت پیلے اور منہ زرد۔

(د) منہ سیاہ اور دانت پیلے۔

۳۔ درج ذیل عبارت کو غور سے پڑھنے کے بعد آخر پر دیے گئے سوالات کے

۵×۱=۵

جواب لکھئے۔

④ انسانی جسم کسی بھی دوسری مشین سے زیادہ پیچیدہ ہے لیکن اسے

مشین کے مقابلے میں روزانہ دیکھ بھال کی کم ضرورت پڑتی ہے۔ کوئی

بھی مشین وہ سب کام نہیں کرتی جو جسم کرتا ہے۔ کوئی بھی مشین 70 سال

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یا زیادہ سالوں تک صرف ہوا، پانی، خوراک اور کچھ سادہ سے

اصولوں پر کام نہیں کرتی۔ کوئی ایسی مشین نہیں بنی ہے جو انسانی جسم کی

طرح مختلف حالات کے مطابق اپنے آپ کو ڈھال سکے۔ ہر شخص کو

اپنے بارے میں جاننے کی ضرورت ہے تاکہ وہ اپنا بہتر خیال رکھ

سکے۔ انسان کے جسم میں 70% پانی ہے 206 ہڈیاں ہیں۔

(i) کس کو مشین سے بھی زیادہ پیچیدہ کہا گیا؟

(ii) انسانی جسم کو مشین کے مقابلے میں کس کی ضرورت کم پڑتی ہے؟

(iii) مشین کے برعکس انسانی جسم اپنے آپ کو کس کے مطابق ڈھال سکتا ہے؟

(iv) انسانی جسم میں پانی کی شرح کیا ہے؟

(v) انسان کے جسم میں



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(7)

حصہ ”ب“

۴۔ (الف) درج ذیل الفاظ کو جملوں میں اس طرح استعمال کیجئے کہ ان کی

۳ تذکیر و تانیث واضح ہو جائے۔

(i) چائے۔

(ii) پانی۔

(iii) شربت۔

(ب) درج ذیل الفاظ کو جملوں میں اس طرح استعمال کیجئے کہ ان کا

۲ واحد یا جمع ہونا واضح ہو جائے۔

(i) تصاویر۔

(ii) سبب۔

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۵ دیئے گئے حروف کی تعریف کیجئے اور مثالیں بھی دیجئے۔ (صرف دو)

(i) حروف تاسف۔

(ii) حروف شرط۔

(iii) حروف ندا۔

۶۔ ہدایات کے مطابق جواب لکھئے۔

$$5 \times 1 = 5$$

(الف) ”چوہا بھاگ رہا ہے“

اس جملے میں ”چوہا“ کیا ہے؟

(i) اسم فاعل۔

(ii) اسم مفعول۔

(iii) اسم صفت۔

(iv) فعل۔

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(9)

(ب) ”آسمان نیلا ہے“

اس جملے میں ”نیلا“ کیا ہے؟

(i) اسم فاعل۔

(ii) اسم مفعول۔

(iii) اسم صفت۔

(iv) فعل۔

(ج) ”زمین گول ہے“

اس جملے میں ”گول“ کیا ہے؟

(i) اسم فاعل۔

(ii) اسم مفعول۔

(iii) اسم صفت۔

(iv) فعل۔



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”ماجد نے خط لکھا“ (د)

اس جملے میں ”خط“ کیا ہے؟

(i) اسم فاعل۔

(ii) اسم مفعول۔

(iii) اسم صفت۔

(iv) فعل۔

”وہ مظلوم ہے“ (ہ)

اس جملے میں ”مظلوم“ کیا ہے؟

(i) اسم صفت۔

(ii) اسم فاعل۔

(iii) اسم مفعول۔

(iv) اسم معر



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۲۔ درج ذیل محاورات میں سے صرف دو کو جملوں میں استعمال کیجئے۔

(i) اُلوسیدھا کرنا۔

(ii) قافیہ تنگ کرنا۔

(iii) ایک ننہنٹا۔

۳۔ کسی ایک جملے کی ترکیب نحوی کیجئے اور جملے کا نام بھی لکھئے۔

(i) زمین گول ہے۔

(ii) مچھلی پانی میں تیر رہی ہے۔

حصہ ”ج“

۵۔ درج ذیل اصناف میں سے کسی ایک صنف پر روشنی ڈالئے۔

(i) ڈراما۔

(ii) ناول۔

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(iii) غزل۔

(iv) مرثیہ۔

۵

۱۰۔ درج ذیل درسی اسباق میں سے کسی ایک کا خلاصہ لکھئے۔

(i) عبرت۔

(ii) آسمان پھول اور ہوا۔

(iii) اور مزاج دارلٹ گئی۔

۱۱۔ درج ذیل اشعار کی تشریح کیجئے اور شاعر کا حوالہ بھی دیجئے۔ (صرف

تین اشعار کی)

(i) غم و غصہ رنج و اندوہ و حرمان

ہمارے بھی ہیں مہرباں کیسے کیسے

(ii) موت کا ایک دن معین ہے

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(iii) کون ہے جو نہیں ہے حاجت مند

کس کی حاجت روا کرے کوئی

(iv) تمناؤں میں الجھایا گیا ہوں

کھلونے دے کے بہلایا گیا ہوں

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(v) ہر ایک رنگ میں کاٹیں گے ہم سزا ہی سہی

یہ زندگی کسی مفلس کی بددعا ہی سہی

(vi) ایک بھی موسم میرے اندر نہ تھا

اور آنکھوں میں کوئی منظر نہ تھا

۱۲۔ درج ذیل سوالات میں سے صرف دو کے جواب لکھئے۔

(i) ملک صادق کون تھا اور شہزادے کے ساتھ اس کا کیا رشتہ تھا؟

(ii) محمد عاقل ججن کی چال کیوں نہ سمجھ سکا؟

(iii) داروغہ جی کا پنڈت چندر دھر کے ساتھ کیسا برتاؤ تھا؟

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(14)

۵

۱۳۔ درج ذیل سوالات میں سے صرف دو کے جواب لکھئے۔

(i) حضرت محمد ﷺ کیا پیغام لے کر آئے؟

(ii) مفلس کو ہر وقت کس چیز کی فکر رہتی ہے؟

(iii) رام چند جی کو دیکھ کر اس کی ماں کیوں رونے لگی؟

۱۴۔ درج ذیل میں سے کسی ایک ادیب یا شاعر کے حالات زندگی تحریر کیجئے۔

۴

(i) میرامن۔

(ii) علامہ اقبال۔

(iii) سر سید احمد خاں۔

(iv) میر تقی میر۔

حصہ ”د“

۱۵۔ اپنے اسکول کے پرنسپل کے نام فیس معاف کروانے کے لئے درخواست لکھئے۔

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(یا)

اپنے چھوٹے بھائی کے نام خط لکھئے جس میں انہیں پڑھائی کے ساتھ ساتھ کھیل کود کی اہمیت سے واقف کرائیں۔

۱۱۔ درج ذیل عنوانات میں سے کسی ایک پر ڈیڑھ سو سے دو سو الفاظ پر مشتمل

۸

مضمون لکھئے۔

(i) علم کے فوائد۔

(ii) موبائل فون۔

(ii) کھیلوں کی اہمیت۔

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E-0-A

Roll No.....

Total No. of Questions : 17]

[Total No. of Printed Pages : 15

XKDAR21

5500-A

ENGLISH

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Reading Comprehension)

1. Read the extract from the poem and answer the questions that follow :

Lord ! you are my hope and trust, lead me to the way of truth;
How long shall I dwell in ignorance ! Pour me the nectar of
Knowledge.

Lend ear to my wailing and pleas, cure me of ills and pains;

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Be kind each moment to me, let me never feel in want.

Save me from Sloth, infirmity and doubt,

Surcharge my heart with passion, Zest and hope.

Questions :

- ✓(a) Which way the poet implores his lord to lead him to ?
- ✓(b) Name the three blessings that the poet prays for.
- ✓(c) The poet calls his hope and trust.
- (d) Match the correct combination :
- (i) Dwell—to live
 - (ii) Wail—to cry
 - (iii) Zest—to eager
 - (iv) All of these
- (e) Name the poet



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2. Read the following passage and answer the questions that follow :

The arrival of a stranger at an inn in winter was in any case an unusual event. A stranger of such uncommon appearance set all tongues wagging. Mrs. Hall, the landlord's wife, made every effort to be friendly. But Griffin had no desire to talk, and told her, "My reason for coming to Iping is a desire for solitude. I do not wish to be disturbed in my work. Besides, an accident has affected my face."

Satisfied that her guest was an eccentric scientist, and in view of the fact that he had paid her in advance, Mrs. Hall was prepared to excuse his strange habits and irritable temper. But the stolen money did not last long, and presently Griffin had to admit that he had no more ready cash. He pretended, however, that her was expecting a cheque to arrive at any moment.

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Answer the following questions :

- (a) Give the opposite of 'arrival'.
- (b) Which word has been used for 'aloneness' in the passage ?
- (c) Name the lesson and the writer.
- (d) What is meant by 'eccentric' ?
- (e) Give the synonym of 'wagging'.

3. Read the following passage and answer the questions that follow :

The Soyabean comes from a leafy plant that can grow in many parts of the world. The US produces three-fourths of the world's crop. It is a power-house bean. Oil from the bean is used in cooking and

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salad oils. The bean itself can be used like a vegetable. Soyabean foods taste good and are healthful. They have twice the protein, red meat and milk have. Milk and meat are costly these days. So families can use Soyabean to have a healthy and cheaper diet.

Questions :

- (a) A healthy and cheaper diet is
- (b) Give the antonym of 'costly'.
- (c) What is being used in 'Cooking and Salad Oils' ?
- (d) Say true or false :
Soyabean is a vegetable.
- (e) Give a suitable title of the passage.

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Section-B

(Grammar)

4. Insert appropriate modals (given below) in the following sentences :

must, may, should, would

(a) You consult some doctors about the pain.

(b) It rain today. <https://www.jkboseonline.com>

5. Insert suitable article in the blank spaces :

(a) He is honourable man.

(b) The Taj Mahal is most beautiful building.

6. Put in the relative clauses and rewrite the sentences :

(a) The man is honest. The man is trusted.

(b) The teacher sent for the boy. The boy came at once.

(c) I have found the umbrella it.

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7. Change the form of narration :

(a) He said, "Alas ! I have failed."

(b) I said to him, "Do you like apples ?"

(c) He said to her, "I will see you tomorrow."

8. Use appropriate articles, tenses, spellings etc. wherever necessary to

edit the passage given below :

Yesterday I go to meet (a) my uncle who was feeling
unwell. Doctor said that his blod pressure was very high

(b) He shall take precautions (c) when I
reached there. His family members was also (d) present

there. I wish them (e) and asked about his health. $1 \times 5 = 5$

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Section-C

(Writing Skills)

9. Complete the dialogue given below :

Hemani : When (a) ?

Taniya : I went on the tour on Sunday.

Hemani : How many (b) ?

Taniya : We were twelve girls.

Hemani : (c) ?

Taniya : Mrs. Shahnaz was the incharge of the tour.

Hemani : (d) for Chandigarh ?

Taniya : We left for Chandigarh by bus.

Hemani : (e) stay there ?

Taniya : We stayed there for six days.

Hemani : Whereelse (f) ?

Taniya : Nada Sahib.

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10. Write a notice for the school notice-board inviting volunteers for one day 'Blood Donation Camp' to be organised in your school on 5 September, 20 -from 10 a.m. to 3 p.m.

11. Read the notes from the notepad of Sh. Chand Narayan, Headmaster of Secondary School, Harwan. He asks his assistant to draft a message on his behalf for the class representatives and the staff secretary. Using the information from the notepad, draft the message in not more than **50** words. Put the message in a box :

- Growing tendency of bringing mobile phones secretly in the school by the students.
- Indiscipline created thereupon.
- All the class representatives and the staff secretary to attend the meeting.

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12. Do any *one* of the following :

(a) Write a letter to the editor of a newspaper complaining against frequent power failure in your locality.

(b) Write an application to the Principal for the post of English teacher in a private school.

13. Do any *one* of the following. You may organise your ideas coherently before you begin to write. (80–100 words) :

(a) Write a short paragraph on 'the evils of dowry system' :

- stigma on our society
- insult to women, shame for men
- girls tortured, many innocent lives lost

● law disal

ng day by day



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- educating girls and making them self-dependent, the only way to end this evil.
- refuse to marry dowry-seekers.

(b) Write a brief article on the uses of internet. The hint words are given below :

- Network of computers
- World Wide Communication
- e-Mail
- YouTube
- WhatsApp
- Online Classes in Covid-19
- Students' urge
- Learn from internet
- Virtual cl



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(12)

Section-D

(Literature)

14. Read the extracts of the poems carefully and do any *three* of the following. (20–30 words) :

(a) Look there, in that Smithy;

Its red oven, fierce flames,

The Padlocks are already opening their mouths

And each fetter is skirting around.

Which poetic device has been used in this stanza by the poet?
Explain it.

(b) With the other deaths. She, too, pursues her ends,

Brutal as the stars of this month,

Her Pale head h

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Explain : 'Her Pale head heavy as metal'.

(c) Loss of hope has darkened the evening my life too

And clouds gathering in the mind shed tears as they pass

The evening of troubles, my companion, is also depressed

And takes me along, holding me by the arm.

What companion do you see in the above lines.

(d) I lived in a quarter

in Madrid, with bells

with clocks, with trees,

From there could be seen

the dry face of castille

like a sea of

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The poet uses the word 'quarter' to indicate something different from the literal meaning. What is it ?

- (e) How many loved your moments of glad grace,
And loved your beauty with love—false or true,
But one man loved the Pilgrim soul in you,
And loved the sorrows of your changing face;

What images does the poet use in the above lines in the poem 'When You are Old' ?

15. Do any *four* of the following (40–60 words) :

- (a) What does Mrs. Bennet tell her husband ?
(b) How did Mandela's "hunger for freedom" change his life ?
(c) What is a sermon ? How is it different from a lecture ?
(d) How does Antonio help Bassanio ?
(e) What did Griffin do inside the shop ?
(f) How does Anne feel about her father her grandmother, Mrs Kuperus and



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16. Do any *one* of the following (80–100 words) :

(a) Write a character-sketch of Natalya.

(b) What is the theme of the play 'The Proposal' ?

17. Do any *one* of the following (80–100 words) :

(a) Draw a character-sketch of Matilda.

(b) Why did Abhiley call Dolma a memsahib ?

(c) What did Gortsby imagine about the people who visited Hyde Park ?

6×1=6

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Roll No.....

Total No. of Questions : 16]

[Total No. of Printed Pages : 15

10th SZJDAR22

6201-Y

URDU

Time : 2.30 Hours]

[Maximum Marks : 80

” الف ”

(قرآت)

۱۔ درج ذیل غیر تدریسی عبارت کو غور سے پڑھئے اس کے آخر پر دی گئی خالی جگہوں کو اسی

۵ = ۱ × ۵

سے چن کر مناسب الفاظ سے پُر کیجئے۔

یوں تو ہمارا کشمیر بہت قدیم زمانے سے ہی صنعت و حرفت کے لحاظ

سے اہم ہے۔ مگر کشمیر کے عظیم اور مشہور سلطان سلطان شہاب دین نے علم و

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(2)

فن کو ترقی دینے کے لئے سمرقند۔ تاشقند اور بخارا کے کاریگر اور عالم و فاضل بلائے۔ اور مختلف صنعتوں کو بڑھا دیا تھا۔ مورخوں نے بادشاہ کو دراصل اس کا بانی قرار دیا ہے۔ البتہ بڈشاہ نے شہاب دین کے قائم کردہ صنعتوں کو مزید ترقی دی۔

- (i) کشمیر..... کے لحاظ سے اہم ہے۔
- (ii) سمرقند تاشقند سے..... بلائے گئے۔
- (iii) سلطان..... نے علم و فن کو ترقی دینے کے لئے باہر سے عالم اور فاضل بلائے۔

(iv) مورخوں نے..... کو اس کا بانی قرار دیا ہے۔

(v) شہاب دین کی قائم کردہ صنعتوں کو..... نے مزید ترقی

دی۔

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۲۔ درج ذیل شعری جز کو غور سے پڑھئے اور آخر پر دئے گئے سوالات کے

۵×۱=۵

جوابات میں سے درست جواب چُن لیجئے۔

جگنو کی روشنی ہے کاشانہ چمن میں
یا شمع جل رہی ہے پھولوں کی انجمن میں
آیا ہے آسمان سے اڑ کر کوئی ستارہ
یا جان پڑ گئی ہے مہتاب کی کرن میں
یا شب کی سلطنت میں دن کا سفیر آیا

(i) یہ شعری جُز کس نظم سے لیا گیا ہے؟

(الف) جگنو۔

(ب) ایک آرزو۔

(ج) ترانہ ہندی۔

(د) ہمالہ۔

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(4)

(ii) اس نظم کا شاعر کون ہے؟

(الف) اقبال۔

(ب) حالی۔

(ج) نظیر اکبر آبادی۔

(د) چلبست۔

(iii) جگنو کی روشنی کہاں ہے؟

(الف) آسمان میں۔

(ب) بادلوں میں۔

(ج) زمین میں۔

(د) کاشانہ چمن میں۔

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(5)

(iv) شاعر کے مطابق کس میں جان پڑ گئی؟

(الف) سورج کی کرن میں۔

(ب) مہتاب کی کرن میں۔

(ج) بجلی کی کرن میں۔

(د) چاند کی کرن میں۔

(v) جگنو شب کی سلطنت میں کیا بن کر آیا ہے؟

(الف) وکیل بن کر۔

(ب) وزیر بن کر۔

(ج) سفیر بن کر۔

(د) سیاح بن کر۔

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۳۔ درج ذیل غیر درسی عبارت کو غور سے پڑھئے اور آخر پر اس سے متعلق دیئے سز

۵×۱=۵

سوالات کے مختصر ترین جواب لکھئے۔

برصغیر ہندو پاک زبانوں کا عجائب خانہ ہے۔ یہاں لاتعداد چھوٹی بڑی زبانیں بولی جاتی ہیں۔ ان تمام زبانوں کے خطے اور علاقے متعین ہیں۔ یہی وجہ ہے کہ ان میں بیشتر زبانوں کے نام اپنے اپنے خطوں اور علاقوں کی نسبت سے قرار پاتے ہیں مثلاً بنگال کی زبان بنگالی ہے اور کشمیر کی زبان کشمیری ہے۔ اردو برصغیر کے تمام علاقوں میں بولی جاتی ہیں۔

- (i) زبانوں کا عجائب خانہ کہاں ہے؟
- (ii) برصغیر ہندو پاک میں کتنی زبانیں بولی جاتی ہیں؟
- (iii) بنگال کے لوگ کون سی زبان بولتے ہیں؟
- (iv) کشمیری کس علاقے کی زبان ہے؟
- (v) برصغیر کے کون سے علاقوں میں اردو بولی جاتی ہے؟

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(7)

حصہ ”ب“

۴۔ (الف) درج ذیل الفاظ کو جملوں میں اس طرح استعمال کیجئے کہ ان کی

تذکیر و تانیث واضح ہو جائے۔

(i) اُفت۔

(ii) شربت۔

(iii) عمارت۔

(ب) درج ذیل الفاظ کو جملوں میں اس طرح استعمال کیجئے کہ ان کا

واحد یا جمع ہونا واضح ہو جائے۔

(i) اوراق۔

(ii) سبب۔

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۵۔ درج ذیل کی تعریف کیجئے اور مثالیں دیجئے۔

(i) حروف تاکید۔

(ii) حروف انبساط۔

۶۔ ہدایات کے مطابق جواب لکھئے۔

۵ × ۱ = ۵

(الف) ”احمد کو گتے لے کاٹا“

اس جملے میں ”احمد“ کیا ہے؟

(i) اسم فاعل۔

(ii) اسم مفعول۔

(iii) اسم صفت۔

(iv) اسم۔

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(ب) ”رشید نے عالیشان مکان بنوایا“

اس جملے میں لفظ ”عالیشان“ کیا ہے؟

(i) اسم مفعول۔

(ii) اسم فاعل۔

(iii) اسم صفت۔

(iv) فعل۔

(ج) ”اُس نے خط پڑھا“

اس جملے میں ”لفظ خط“ کیا ہے؟

(i) اسم فاعل۔

(ii) اسم صفت۔

(iii) فعل۔

(iv) اسم مفعول۔

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(10)

” احمد نے سانپ کو مارا “ (د)

اس جملے میں ” سانپ “ کیا ہے؟

(i) اسم صفت۔

(ii) اسم فاعل۔

(iii) اسم مفعول۔

(iv) فعل۔

” اس نے رنگین لباس پہنا ہے “ (ہ)

اس جملے میں ” لفظ رنگین “ کیا ہے؟

(i) ضمیر۔

(ii) اسم فاعل۔

(iii) اسم صفت۔

(iv) فعل۔

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۲۔ درج ذیل محاورات میں سے صرف دو کے جملے بنائے۔

(i) اُلوسیدھا کرنا۔

(ii) آج کل کرنا۔

(iii) تارے گننا۔

۳۔ کسی ایک جملے کی ترکیب نحوی بیجے اور جملے کا نام بھی لکھئے۔

(i) اکبر بیمار ہے۔

(ii) مجید نے رشید کو مارا۔

حصہ ج

۴۔ درج ذیل اصناف میں سے کسی ایک صنف پر روشنی ڈالئے۔

(i) افسانہ۔

(ii) ڈراما۔

(iii) غزل۔

(iv) نعت۔

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۱۰۔ درج ذیل میں سے کسی ایک کا خلاصہ لکھئے۔

(i) خوشامد۔

(ii) اور مزاج دار لٹ گئی۔

(iii) عبرت۔

۱۱۔ درج ذیل اشعار میں سے صرف تین اشعار کی تشریح کیجئے اور شاعر کا حوالہ بھی

۲×۲=۴

دیتے۔

(i) ہمارے آگے تراجب کس نے نام لیا

دل ستم زدہ کو ہم نے تھام تھام لیا

(ii) کل پاؤں ایک کاسہ سر پہ جو آگیا

یکسر وہ استخوان شکستوں سے پور تھا

(iii) نہ گور سکندر نہ ہے قبر دارا

مٹے نامیوں کے نشاں کیسے کیسے

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(13)

(iv) موت کا ایک دن معین ہے

نیند کیوں رات بھر نہیں آتی

(v) ہوں اس کوچہ کے ہرزہ سے واقف

ادھر سے مدتوں آیا گیا ہوں

(vi) ایسا نہیں کہ سر پہ سدا آسمان تھا

میرا بھی شہر میں کبھی کوئی مکان تھا

۵

۱۲۔ صرف دو سوالوں کے جواب لکھئے۔

(i) شہزادے کے چچا کو بجائے ابو جہل کیوں کہا گیا؟

(ii) پنڈت چندر دھرا اپنے پٹھے سے بیزار کیوں تھے؟

(iii) لڑکے کے لئے گڑیا خریدنا کیوں ضروری تھا؟

(iv) قومی اتحاد کے بارے میں حالی کا کیا خیال تھا؟

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۱۳۔ صرف دو سوالوں کے جواب لکھئے۔

(i) درسی کتاب میں شامل نعت کس شاعر نے لکھی ہے اور اس نعت کا عنوان کیا ہے؟

(ii) نظم مفلسی کی روشنی میں بتائیے مفلسی انسان کو کس کس طرح ستاتی ہے؟

(iii) حضرت امام حسینؑ نے یزیدوں سے کیا سوال کیا؟

(iv) رام چند راجی کو دیکھ کر اس کی ماں کیوں رونے لگی؟

۱۴۔ کسی ایک ادیب یا شاعر کے حالات زندگی تحریر کیجئے۔

(i) پریم چند۔

(ii) سر سید احمد خاں۔

(iii) میر تقی میر۔

(iv) غالب۔

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۶ ۱۵۔ اپنے دوست کو امتحان میں کامیاب ہونے پر مبارک بادی کا خط لکھئے۔

(یا)

اپنے اسکول کے سربراہ کے نام اسکول ایکسکرتشن پر جانے کی اجازت طلب

کرنے کے لئے درخواست لکھئے۔

۸ ۱۶۔ کسی ایک عنوان پر دو سو (۲۰۰) الفاظ پر مشتمل مضمون لکھئے۔

(i) علم کے فوائد۔

(ii) جنگلات کے فوائد۔

(iii) سائنس اور ہماری زندگی۔

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Roll No.....

Total No. of Questions : 17]

[Total No. of Printed Pages : 15

XKДАР21

5500-B

ENGLISH

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Reading Comprehension)

1. Read the extract from the poem and answer the questions that follow :

Driving from my Parent's home to Cochin last Friday morning,

I saw my mother beside me,

Doze, open mouthed, her face ashen like that

Of a corpse and realized with pain

That she was as old as she looked but soon

Put that thought away, and looked out at young

Trees sprinting, the merry children spilling

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out of their homes, but after the airport's
Security check, standing a few yards
away, I looked again at her, wan, pale
As a late winter's moon and felt that old
familiar ache, my childhood's fear, but all I
said was, see you soon, Amma;
All I did was smile and smile and smile.....

Questions :

- (a) Who was sitting beside her ?
- (b) What did the poet notice about the mother ?
- (c) The poet compares her face ashen like
- (d) Match the correct combination :
- (i) doze—to sleep
 - (ii) spill—to move
 - (iii) wan—colourless
 - (iv) All of these
- (e) Smile and smile and smile is a poetic device. What is it called ?

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2. Read the following passage and answer the questions that follow :

On the lovely autumn day I was accompanied by my daughter Zenani. On the Podium, Mr. deKlerk was first sworn in as second deputy president. Then Thabo Mbeki was sworn in as first deputy president. When it was my turn, I pledged to obey and uphold the constitution and to devote myself to the well-being of the Republic and its people. To the assembled guests and the watching world, I said :

'Today, all of us do, by our presence here... Confer glory and hope to newborn liberty. Out of the experience of an extraordinary human disaster that lasted too long, must be born a society of which all humanity will be proud.

We, who were outlaws, not so long ago, have today been given the rare privilege to be host to the nations of the world on our own soil. We thank all of our distinguished international guests for having come to take possession with the people of our country of what is, after all, a common victory for justice, for peace, for human dignity.'

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(4)

Answer the following questions :

(a) Give the opposite of 'hope'.

(b) Give the synonym of 'liberty'.

(c) Which word has been used for 'to give' in the passage.

(d) The writer in the above passage celebrates

(i) racism

(ii) apartheid

(iii) injustice

(iv) human dignity

(e) What is meant by 'extraordinary human disaster' ? $1 \times 5 = 5$

3. Read the following passage and answer the questions that follow :

The spring season is liked by one and all. It is welcomed by the young and the old. _____ of summer nor does



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it have the biting cold of winter. It is a season of hope and cheer. There is freshness all around. Nature puts a new life into plants and flowers. It looks very colourful. Birds sing merrily in the trees. The air is full of fragrance. One wonders at the workmanship of God, who created this beautiful and lovely season. Shelly said, "If winter comes, can spring be far behind." The earth looks beautiful like a young bride.

Answer the following questions :

✓
(a) The spring season is welcomed by

✓
(b) State true or false :

The spring season is not liked by one and all.

✓
(c) What is the synonym of 'Merry' ?

✓
(d) Name the seasons of the year.

✓
(e) Give a suitable

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Section-B

(Grammar)

4. Insert appropriate modals (given below) in the following sentences :

would, should, must, could <https://www.jkboseonline.com>

(a) We respect our parents.

(b) that I were rich !

5. Insert suitable article in the blank places :

(a) The sun rises in east.

(b) He is one-eyed man.

6. Put in the relative clauses and rewrite the sentences :

(a) Tom could not walk properly. Tom was lame.

(b) A play was staged in the theatre. It wasn't a great success.

(c) I saw a woman. The woman's husband is a teacher.

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E-0-B



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7.

Change the form of narration :

(a) He says, "I have finished my work."

(b) She said to me, "What are you doing ?"

(c) The teacher said to me, "Do not tell a lie."

1×3=3

8.

Use appropriate articles, tenses, spellings etc. wherever necessary to edit the passage given below :

Yesterday I go to meet (a) my uncle who was feeling unwell. Doctor said that his blod pressure was very high

(b) He shall take precautions (c) when I reached there. His family members was also (d) present

there. I wish them (e) and asked about his health. 1×5=5

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Section-C

(Writing Skills)

9 Complete the dialogue given below :

Hemani : When (a) ?

Taniya : I went on the tour on Sunday.

Hemani : How many (b) ?

Taniya : We were twelve girls.

Hemani : (c) ?

Taniya : Mrs. Shahnaz was the incharge of the tour.

Hemani : (d) for Chandigarh ?

Taniya : We left for Chandigarh by bus.

Hemani : (e) stay there ?

Taniya : We stayed there for six days.

Hemani : Whereelse (f) ?

Taniya : We also went to see the Nada Sahib.

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10. Write a notice for the school notice-board inviting volunteers for one day 'Blood Donation Camp' to be organised in your school on 5 September, 20 –from 10 a.m. to 3 p.m.

11. Read the notes from the notepad of Sh. Chand Narayan, Headmaster of Secondary School, Harwan. He asks his assistant to draft a message on his behalf for the class representatives and the staff secretary. Using the information from the notepad, draft the message in not more than 50 words. Put the message in a box :

- Growing tendency of bringing mobile phones secretly in the school by the students.
- Indiscipline created thereupon.
- All the class representatives and the staff secretary to attend the meeting.

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12. Do any *one* of the following :

(a) Write a letter to the editor of a newspaper complaining against frequent power failure in your locality.

(b) Write an application to the Principal for the post of English teacher in a private school.

13. Do any *one* of the following. You may organise your ideas coherently before you begin to write. (80–100 words) :

(a) Write a short paragraph on 'the evils of dowry system' :

- stigma on our society
- insult to women, shame for men
- girls tortured, many innocent lives lost
- law disallows, yet the evil spreading day by day

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E-0-B

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- educating girls and making them self-dependent, the only way to end this evil.
- refuse to marry dowry-seekers.

(b) Write a brief article on the uses of internet. The hint words are given below :

- Network of computers
- World Wide Communication
- e-Mail
- YouTube
- WhatsApp
- Online Classes in Covid-19
- Students' urge
- Learn from internet
- Virtual classro



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Section-D

(Literature)

14. Read the extracts of the poems carefully and do any *three* of the following. (20-30 words) :

(a) Look there, in that Smithy;

Its red oven, fierce flames,

The Padlocks are already opening their mouths

And each fetter is skirting around.

Which poetic device has been used in this stanza by the poet ?

Explain it.

(b) With the other deaths. She, too, pursues her ends,

Brutal as the stars of this month,

Her Pale head heavy as metal

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Explain : 'Her Pale head heavy as metal'.

(c) Loss of hope has darkened the evening my life too

And clouds gathering in the mind shed tears as they pass

The evening of troubles, my companion, is also depressed

And takes me along, holding me by the arm.

What companion do you see in the above lines.

(d) I lived in a quarter

in Madrid, with bells

with clocks, with trees,

From there could be seen

the dry face of castille

like a sea of l

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The poet uses the word 'quarter' to indicate something different from the literal meaning. What is it ?

(e) How many loved your moments of glad grace,

And loved your beauty with love—false or true,

But one man loved the Pilgrim soul in you,

And loved the sorrows of your changing face;

What images does the poet use in the above lines in the poem 'When You are Old' ? 3×2=6

15. Do any *four* of the following (40–60 words) :

(a) What does Mrs. Bennet tell her husband ?

(b) How did Mandela's "hunger for freedom" change his life ?

(c) What is a sermon ? How is it different from a lecture ?

(d) How does Antonio help Bassanio ?

(e) What did Griffin do inside the shop ?

(f) How does Anne feel about her father, her grandmother, Mrs Kuperus and Mr. Keesing ?

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16. Do any *one* of the following (80–100 words) :

(a) Write a character-sketch of Natalya.

(b) What is the theme of the play 'The Proposal' ?

17. Do any *one* of the following (80–100 words) :

(a) Draw a character-sketch of Matilda.

(b) Why did Abhilek call Dolma a memsahib ?

(c) What did Gortsby imagine about the people who visited Hyde Park ?

6×1=6

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Total No. of Questions : 17]

[Total No. of Printed Pages : 15

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3500-X

ENGLISH

Time : 3 Hours]

[Maximum Marks : 100

Section-A

(Reading)

1. Read the following extract and complete the summary by writing words/phrases in the blanks :

Why, who makes much of a miracle ?

As to me I know of nothing else but miracles:

Whether I walk the street of Manhattan,

Or dart my sight over the roofs of houses toward the sky,

Or wade with naked feet along the beach just in the edge of the

water

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Summary :

The poet draws his miracles from life. The people and the city life are miracles. Nature itself is an of miracles. For him, walking down the streets of Manhattan is a miracle. The rooftops of the multistoreyed buildings, wading with naked feet along the, standing under the woods and looking at strangers in the sub way cars are all miracles. The creation and activities of honey bees, animals feeding in the fields, feeling the on our faces, watch the stars shining so quiet and bright, fine thin curve of the new moon in are all miracles to him.

 $\frac{1}{2} \times 6 = 3$

2. Study the following expressions used by the poet and choose the most appropriate suggestions for each expression. Write the answer against each expression :

Expressions from the poem	To suggest that
(a) dart my eyes	(i)
(b) wade	(ii)
(c) make much of	(iii)

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Suggestions :

(i) greatly admire

(ii) run quickly

(iii) glance at

(iv) a way of saying

(v) walk through water

1×3=3

3. Read the following extract from a poem and answer the questions given at the end :

“Look there, in that smithy

It's red oven, fierce flames,

The padlocks are already opening their mouths

And each fetter is skirting around.”

Questions :

- (i) What is the smithy a symbol of in the extract ?

2

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(ii) What is meant by each fether is skirting around ?

2

(iii) What do the following words mean ?

(a) oven

(b) fether

$\frac{1}{2} \times 2 = 1$

4. Read the following passage and answer the questions given at the end :

'Is that his design in settling here ?'

'Design ! Nonsense, how can you talk like

So ! But it is very likely that he might

fall in love with one of them, and therefore,

you must visit him as soon as he comes.'

'I see no occasion for that, you and the

girls may go, or you may send them by

themselves, which perhaps will be

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still better, for, as you are as handsome
as any of them. Mr. Bingly might like
you the best of the party'.

Questions :

(i) Give the antonyms of the following :

(a) love

(b) handsome

$\frac{1}{2} \times 2 = 1$

(ii) Write the synonyms of the following :

(a) design

(b) love

$\frac{1}{2} \times 2 = 1$

(iii) Fill in the blanks .

(a) The word 'his' in the first sentence refers to

(b) It is nonsense to think that

(c) The of girls insists their to visit the
new tenant.

$\frac{1}{2} \times 4 = 2$

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5. Read the following passage below and answer the questions given at the end :

"India is a land of pilgrimages. These holy places, whether in the hills or in the plains, are generally situated on river banks. It is not only religious people who visit these places but also travellers from all over India and even abroad. Wherever two or more rivers meet, pilgrims come to bathe and worship because that place is supposed to be holy. Mani Mahesh is situated beside the beautiful lake of the same name. To reach it, pilgrims travel along the river Ravi. Just beyond are the beautiful Kulu and Kangra valleys, known for their delicious fruits and works of art."

Questions :

- (i) In India, the holy places are generally situated on
- (ii) The people and tourists visit these places.
- (iii) is situated beside a lake of the same name.
- (iv) and are famous for their delicious fruits and works of art.
- (v) People reach Mani Mahesh after travelling along the river

1×5=5

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Section-B

(Writing)

6. You are Maryam. A dramatic club has agreed to stage a drama in your school. As Secretary of the school cultural club, draft a notice for the school notice-board to inform the students of your school to be present and attend the same in the school auditorium. Give time and date of the event. 4
7. You are Mohit. You are going to your friend's home to prepare a class project. You wish to inform your mother who is not at home right now about this. Write a message informing her about your father requesting him to engage a tutor for you to complete your course due to COVID-19. 4
8. Write a notice for your school to inform the students about the completion of your course due to COVID-19. 5

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9. You are Amaan of Hr. Sec. School. Bathandi. Jammu. You have to take part in a speech competition on the topic 'Mobile Phone—A boon or ban'. Write a speech in about 200–250 words taking help from the following points :

Scientific inventions and discoveries are very useful — mobile one of these — better communication — useful information — knowledge explosion — door to the world knowledge — judicious use — results in achievements — misuse — many drawbacks — affects one's eyesight — wastage of time — children lose interest in studies — parents to curb this tendency — schools can play leading role. 7

Section-C

(Literature)

10. Answer the following questions :

(a) Why was the arrival of this stranger in a village inn an unusual event ? Give two reasons.

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Or

What is a Sermon ? How is it different from a lecture ? $1 \times 5 = 5$

(b) Would you agree that 'The Depths of oppression' create 'heights of character' ? How does Mandela illustrate this ?

Or

Anne says teachers are most unpredictable. Is Mr. Keesing unpredictable. How ? $1 \times 5 = 5$

11. Identify and explain the poetic device used in the following lines :

"Speak up, for your lips are not sealed

And your words are still your own;

This upright body is yours :

Speak, while your soul is still your own."

3

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12. Pick out similes used in the poem 'My Mother at Sixty-six'.

Or

Identify the similes and metaphors used in the poem 'Prayer'. 3

13. How is the poet's love different from those who also loved his beloved ? (When You Are Old)

Or

What is it that the poet wants to sing ? (Prayer) 4

14. What was the cause of Matilda's ruin ? How could she have avoided it ?

Or

Bring out the elements of irony in the story 'Dusk'. 5

15. Draw a character-sketch of Bholi.

Or

How did Rama Rao alternate between hope and despair ? (out of Business) 5

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16. What is the theme of the play 'The Proposal' ?

Or

Draw a character-sketch of Stephen Chubukov ?

5

Section-D

(Grammar)

17. (a) Fill in the blanks with suitable modals :

(i) I come in, Madam ?

(ii) The phone is ringing. It be Aslam. $\frac{1}{2} \times 2 = 1$

(b) Fill in the blanks with suitable articles :

..... one rupee note in the park.

..... honest man.

$\frac{1}{2} \times 2 = 1$

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- (c) Match the following words/phrases under Column 'A' with their meanings under Column 'B' :

Column 'A'

Column 'B'

(i) Make up for

not promoted ⁴

(ii) Give up

be careful

(iii) Look out

compensate ¹

(iv) Kept back

to stop doing ²

$\frac{1}{2} \times 4 = 2$

- (d) Change the narration of the following sentences :

(i) The teacher said, "Honesty is the best policy."

(ii) The doctor advised the patient to take medicines regularly.

$1 \times 2 = 2$

- (e) Join the following sentences by changing one of them into a relative clause :

(i) He is a boy. I know him.

(ii) A bus goes to the airport. It runs every hour.

(iii) A waitress served us. She was very impolite.

$1 \times 3 = 3$

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(f) Fill in the blanks with appropriate homonyms :

(i) He an example to prove his points.

(sited/cited)

(ii) The is immortal.

(soul/sole)

(iii) He deals in

(Stationary/stationery)

1×3=3

(g) Punctuate the following :

i am sorry to hear that why did you not tell me before if i had known as much this morning i certainly would not have called on him <https://www.jkboseonline.com>

3

(h) Re-arrange the words/phrases to form meaningful sentences :

(i) an/was/entomologist/Pappachi ?

(ii) nerves/poor/compassion/no/my/on/have/you.

(iii) he/why/so/is/happy ?

(iv) can/shock/an/kill/electrics

(v) you/his/address/do/know ?

(vi) no/hard/alternative/is/to/work/there.

1/2×6=3

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(i) The following passage has not been edited. Do the required editing :

Yesterday I go to meet
my uncle who was feel unwell
Doctor said that his blood pressure is
very high. He shall take precaution
When I reach there
he was sleep
His members of family was also
present there. I wish them
and asked about his health. 1/2 x 8 = 4

(j) Complete the following dialogue :

Aasif : election for the Head Prefect taking place.

Raj : On Monday

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Aasif : There's lot of excitement. Who will be elected ?

Raj : I'm certain Adnan will get most votes. Many students say vote for him.

Aasif : What do you think about ?

Raj : Yes, Manoj is also a good choice.

Aasif : I think it's going to be

Raj : Very tough. Indeed.

Aasif : Ok

Raj : Take care. See you soon

$\frac{1}{2} \times 6 = 3$

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Roll No.....

Total No. of Questions : 16]

[Total No. of Printed Pages : 15

10th SZJDAR22

6201-Z

URDU

Time : 2.30 Hours]

[Maximum Marks : 80

حصہ الف

(قراءت)

۱۔ درج ذیل غیر درسی عبارت کو غور سے پڑھئے اور اس کے آخر پر دی گئی خالی

جگہوں کو اسی سے چن کر مناسب الفاظ سے پر کیجئے۔ $5 = 1 \times 5$

انسان کی پیدائش کی غرض و غایت کیا ہے۔ اس سلسلے

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(2)

میں لوگوں نے مختلف جوابات دیئے ہیں۔ انسان کی زندگی کا مقصد اگر یہ قرار دیا جائے کہ وہ دنیا میں محض عبادت کرنے کی غرض سے آئے ہیں تو اس کا جواب یہ ہو سکتا ہے کہ فرشتے خدا کی عبادت انسانوں سے زیادہ کرتے ہیں۔ پس انسان کو عبادت کی ضرورت کیوں محسوس ہوتی ہے۔ بات دراصل یوں ہے کہ انسان ذات الہی کا مظہر ہے۔ اور وہ خدا کا خلیفہ ہے جیسا کہ خدا خود فرماتا ہے۔

- (۱) انسان کی پیدائش کی..... کیا ہے؟
- (۲) انسان کی زندگی کا مقصد اگر یہ..... دیا جائے۔
- (۳) انسان کو..... کی ضرورت کیوں محسوس ہوتی ہے؟
- (۴) بات..... یوں ہے۔
- (۵) انسان خدا کا..... ہے۔

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(3)

۲۔ درج ذیل شعری جز کو غور سے پڑھئے اور آخر پر دیئے گئے سوالات کے

۵ = ۱ × ۵

جوابات میں سے درست جواب چن لیجئے۔

جب آدمی کے حال پر آتی ہے مفلسی

کس کس طرح اس کو ستاتی ہے مفلسی

پایا تمام روز بٹھاتی ہے مفلسی

بھوکا تمام رات کو سلاتی ہے مفلسی

یہ دکھ وہ جانے جس پہ آتی ہے مفلسی

(i) یہ شعری جز کس نظم سے لیا گیا ہے؟

(ا) جگنو

(ب) مفلسی

(ج) ایک آرزو

(د) شکست انتظار

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(4)

(ii) اس نظم کا شاعر کون ہے؟

(ا) اقبال

(ب) حالی

(ج) نظیر اکبر آبادی

(د) چکبست

(iii) آدمی کے حال پر کیا آتی ہے؟

(ا) غربت

(ب) افلاس

(ج) مفلسی

(د) خوشحالی

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(5)

(iv) آدمی کو مفلسی تمام روز کس طرح بٹھاتی ہے۔

(ا) بھوکا

(ب) پیاسا

(ج) دکھی

(د) خوش حال

(v) مفلسی آدمی کو تمام رات کس طرح سلاتی ہے؟

(ا) بھوکا

(ب) پیاسا

(ج) خوش حال

(د) دکھی

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۳۔ درج ذیل غیر درسی عبارت کو غور سے پڑھیں اور آخر پر دیئے گئے سوالات کے مختصراً

جوابات لکھئے۔
۵ = ۱ × ۵

منزل کا تعین سفر کو آسان بنا دیتا ہے۔ اور اگر مقصد عظیم

ہو تو اس کے لیے قربانیاں دینے اور مصائب برداشت کرنے

کا حوصلہ بھی انسان میں پیدا ہوتا ہے۔ میں اپنے قوم اور ملک

سے بے پناہ محبت رکھتا ہوں۔ میں چاہتا ہوں کہ ملک اور قوم

کی بے پناہ اور بے لوث خدمت سرانجام دوں۔ میں نے مختلف

شعبہ ہائے زندگی کے متعلق اپنی فکر کے گھوڑے دوڑائے۔ آخر

کارٹے کیا استاد بن کر ملک اور قوم کی بہتر خدمت کر سکوں۔

(i) سفر کو آسان بنانے کے لیے کیا کرنا چاہئے۔

(ii) مقصد عظیم حاصل کرنے کے لیے انسان میں کس قسم کا حوصلہ پیدا ہوتا ہے؟

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(7)

(iii) میں اپنی قوم اور ملک سے کیا رکھتا ہوں؟

(iv) میں کیا چاہتا ہوں؟

(v) ملک اور قوم کی خدمت کے لیے کیا بننا چاہتا ہوں؟

حصہ ”ب“

۳۔ (الف) درج ذیل الفاظ کو اس طرح جملوں میں استعمال کیجئے کہ

ان کا تذکرہ و تائید واضح ہو جائے۔

(۱) کھیت

(۲) رومال

(۳) قلم

(ب) درج ذیل الفاظ کو اس طرح جملوں میں استعمال کیجئے کہ ان کا واحد یا جمع ہونا

واضح ہو جائے۔

(۱) تصاویر

(۲) ورق

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۵۔ درج ذیل حروف کی تعریف کیجئے اور مثالیں دیجئے۔

(۱) حروف تاکید

(۲) حروف انبساط۔

۶۔ ہدایات کے مطابق جواب لکھئے۔

(الف) مجید مظلوم ہے۔

اس جملے میں لفظ ”مظلوم“ کیا ہے؟

(۱) اسم فاعل

(۲) فعل

(۳) اسم صفت

(۴) اسم مفعول

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(9)

(ب) گلبرگ خوب صورت جگہ ہے۔

اس جملے میں لفظ ”خوب صورت“ کیا ہے؟

(۱) اسم مفعول

(۲) فعل

(۳) اسم صفت

(۴) اسم فاعل

(ج) اس ظالم آدمی سے دور رہو۔

اس جملے میں لفظ ”ظالم“ کیا ہے؟

(۱) فعل

(۲) اسم مفعول

(۳) اسم فاعل

(۴) اسم صفت

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(د) زید نے روٹی کھائی۔

اس جملے میں لفظ ”روٹی“ کیا ہے۔

(۱) اسم صفت

(۲) فعل

(۳) اسم فاعل

(۴) اسم مفعول

(ه) اس لڑکی کی آواز سریلی ہے۔

اس جملے میں لفظ ”سریلی“ کیا ہے؟

(۱) اسم صفت

(۲) اسم فاعل

(۳) ضمیر

(۴) اسم مفعول



(11)

۷۔ درج ذیل محاورات میں سے دو کے جملے بنائیے۔

(۱) الوسیدھا کرنا۔

(۲) آج کل کرنا۔

(۳) تارے گننا۔۔۔۔

۸۔ درج ذیل کسی ایک جملے کی ترکیب نحوی کیجئے اور جملے کا نام لکھئے۔

(۱) اکبر بیٹا ہے۔

(۲) مجید نے رشید کو مارا۔

حصہ ”ج“

۹۔ درج ذیل اصناف میں سے کسی ایک صنف پر روشنی ڈالئے۔

(۱) افسانہ

(۲) ڈرامہ

(۳) غزل

(۴) نعت

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۱۰۔ درج ذیل میں سے کسی ایک کا خلاصہ لکھئے۔

(۱) خوشامد

(۲) اور مزاج دارلک مئی

(۳) بورکے لڈو

۱۱۔ درج ذیل اشعار میں سے صرف تین اشعار کی تشریح کیجئے اور شاعر کا حوالہ بھی

۲×۲=۶

دیجئے۔

(i) ہمارے آگے تراجب کس نے کام لیا

دل ستم زدہ کو ہم نے تمام تمام لیا

(ii) کل پاؤں ایک کا سنہ سر پہ جو آ گیا

یگر وہ استخوان شگستوں سے پور تھا

(iii) نے گور سکندر نے ہے قبر دارا

مئے نامیوں کے نشاں کیسے کیسے

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(13)

(iv) موت کا ایک دن معین ہے

نیند کیوں رات بھر نہیں آتی

(v) ہوں اس کوچہ کے ہرزہ سے واقف

ادھر سے مدتوں آیا گیا ہوں

(vi) ایسا نہیں کہ سر پہ سدا آسمان تھا

میرا بھی شہر میں کبھی کوئی مکان تھا

۱۲۔ صرف دو سوالوں کے جواب لکھئے۔

(i) شہزادے کے چچا کو بجائے ابو جہل کیوں کہا گیا؟

(ii) پنڈت چندر دھرا اپنے پیشے سے بیزار کیوں تھے؟

(iii) لڑکے کے لئے گڑیا خریدنا کیوں ضروری تھا؟

(iv) قومی اتحاد کے بارے میں حالی کا کیا خیال تھا؟

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۱۳۔ دو کے جواب لکھئے۔

۵

(i) درسی کتاب میں شامل نعت کس شاعر نے لکھی ہے اور اس کا عنوان کیا ہے؟

(ii) نظم مفلسی کی روشنی میں بتائیے مفلسی انسان کو کس کس طرح ستاتی ہے؟

(iii) حضرت امام حسینؑ نے یزیدوں سے کیا سوال کیا؟

(iv) رام چند راجی کو دیکھ کر اس کی ماں کیوں رونے لگی؟

۱۴۔ کسی ایک ادیب یا شاعر کے حالات زندگی تحریر کیجئے۔

(i) پریم چند۔

(ii) سرسید احمد خاں۔

(iii) میر تقی میر۔

(iv) غالب۔

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۱۵۔ اپنے دوست کو امتحان میں کامیاب ہونے پر مبارک بادی کا خط لکھئے۔

(یا)

اپنے اسکول کے سربراہ کے نام اسکول ایکسکریشن پر جانے کی اجازت طلب کرنے کے لئے درخواست لکھئے۔

۱۶۔ کسی ایک عنوان پر دو سو (۲۰۰) الفاظ پر مشتمل مضمون لکھئے۔

(i) علم کے فوائد۔

(ii) جنگلات کے فوائد۔

(iii) سائنس اور ہماری زندگی۔

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I-4-C

Roll No.

Total No. of Questions : 17+15+17] [Total No. of Printed Pages : 32

XAP/BASZJD22

7604-C

SOCIAL SCIENCE

(New/Old/Old II Course)

Time : 3 Hours]

[Maximum Marks : 80

NOTE :- The questions in the question paper are based on revised/pre-revised and old course syllabus marked as "New Course", "Old Course" and "Old II Course" respectively and candidates are advised to appear in the relevant course meant for them. Candidates who may attempt the questions partly from "New Course", partly from "Old Course" and partly from "Old II Course" will not be awarded. Candidates are also advised to record "New Course" or "Old Course" or "Old II Course" as the case may be, on the front page of the answer-book.

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(New Course)

Section-A

1 each

(Objective Type Questions)

- (i) Who was Frederic Sorrien ?
- (A) A French General
(B) A French Philosopher
(C) A French Artist
(D) Member of National Assembly
- (ii) The French Revolution took place in A.D.
- (iii) Napoleon became the King of United Italy. (True/False)
- (iv) Which one of the following persons imposed Martial Law in India ?
- (A) General Dyer (B) Lord Curzon
(C) Lord Duply (D) None of these
- (v) Who found I.N.A. ?
- (A) Pt. Jawaharlal Nehru (B) Subhash Chandra Bose
(C) Mahatma Gandhi (D) None of these
- (vi) The Great Depression started with the crash of stock exchange.

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Or

Spinning Jenny was invented by James Hargreaves.

(True/False)

(vii) Which one of the following crops is called commercial crop in Haryana ?

(A) Wheat

(B) Rice

(C) Sugarcane

(D) None of these

(viii) In which of the following State Coffee is an important plantation crop ?

(A) Karnataka

(B) West Bengal

(C) Assam

(D) U.P.

(ix) Wheat, barley, peas are ~~monsoon~~ crops.

(x) In between the rabi and the kharif seasons, there is a short season during summer month known as the zaid season.

(True/False)

(xi) Bajra grows well on :

(A) Sandy and shallow black soil

(B) Alluvial soils

(C) Red soils

(D) Laterite soils

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I-C-C

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(xii) Expand CNG.

(xiii) Which one of the following countries is not preferring democracy over dictatorship ?

(A) Russia

(B) Pakistan

(C) India

(D) All of these

(xiv) In the context of assessing democracy which among the following is odd one out. Democracies need to ensure :

(A) Free and fair election

(B) Majority rule

(C) Equal treatment before law

(D) Dignity of the individual

(xv) Maharaja Hari Singh signed the Instrument of Accession.

(True/False)

(xvi) Article 35-A was incorporated in the Indian Constitution in

(xvii) Hari Parbat is situated in

(xviii) Full form of P.P.P. is

(xix) Kashmir falls in which of the seismic zones ?

(A) I

(B) IV and V

(C) II

(D) III

(xx) BSL stands for ?

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Section-B

(Short Answer Type Questions)

3 each

Note :- Answer the following questions in about 40 to 60 words each :

2. What do you understand by Greek War of Independence ?
3. How the First World War helped in the growth of National Movement in India ?
4. Distinguish between Ferrous and Non-ferrous minerals.
5. What do you understand by Manufacturing ?
6. State how caste inequalities are still continuing in India.
7. What are the characteristics of a political party ?
8. What is Federalism ? Explain with example.
9. What safety measures are to be taken to safe buildings ?
10. Suggest measures for increasing employment potential in U.T. of Jammu and Kashmir.
11. Give the main highlights of the Education Policy of Jammu and Kashmir during Bakshi's reign.

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Section-C

(Long Answer Type Questions)

Note :- Answer the following questions in about 100 to 130 words each :

12. What were the consequences of Economic Crisis of 1929-1934 ?

Or

Why did industrial production increase during First World War ?

13. How have technical and economic development led to more consumption of resources ?

14. What are the different forms of power sharing in modern democracies ?

Give an example of each of these. <https://www.jkboseonline.com>

15. Discuss the sectoral initiatives taken by the government to generate employment in the U.T. of J & K.

16. Read the below extract carefully and answer the questions that follow :

By the end of 19th century, a new visual culture was taking shape.

With the setting up of an increasing number of printing presses,

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visual images could be easily reproduced in multiple copies. Painters like Raja Ravi Verma produced images for 'mass' circulation. Poor wood engravers who made wood blocks set up shop near letter presses, and were employed by print shops.

In Punjab, too, a similar folk literature was widely printed from the early 20th century. Ram Chaddha published the fast-selling *Istri Dharm Vichar* to teach women how to be obedient wives. The Khalsa Tract Society published cheap booklets with a similar message. Many of these were in the form of dialogues about the qualities of a good woman.

Questions :

- (a) Who produced images of mass circulation during 19th century ? 1
- (b) Why caricatures and cartoons are published in journals and newspapers ? 2
- (c) What Ram Chaddha published in 20th century and what was it about ? 2

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I-4-C



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Section-D

(Map Based Questions)

17.. (a) In a given outline map of India, indicate :

(i) Grand Trunk Road

(ii) Railway Line from Delhi to Mumbai

(iii) Port Marmagao

(b) In a given outline map of World, shade and label any two federal countries of the world (other than India).

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(9)

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7604-C
SOCIAL SCIENCE
(New/Old/Old II Course)

Time : 3 Hours]

[Maximum Marks : 90

NOTE :— The questions in the question paper are based on revised/pre-revised and old course syllabus marked as "New Course", "Old Course" and "Old II Course" respectively and candidates are advised to appear in the relevant course meant for them. Candidates who may attempt the questions partly from "New Course", partly from "Old Course" and partly from "Old II Course" will not be awarded. Candidates are also advised to record "New Course" or "Old Course" or "Old II Course" as the case may be, on the front page of the answer-book.

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(10)

(Old Course)

Section-A

(HISTORY)

(Long Answer Type Questions)

4 each

1. Answer the following questions in about 100-150 words each :

(a) What steps did the French Revolutionaries take to create a sense of collective identity among the French people ?

Or

Why did nationalist tensions emerge in the Balkans ?

(b) Explain, how print culture assisted the growth of nationalism in India.

Or

What did the spread of print culture in 19th century India mean to Women and Reformers ?

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(Short Answer Type Questions)

3 each

2. Answer the following questions in about 50-80 words each :

(a) Why Indians were outraged by the Rowlatt Act ?

Or

Discuss the Salt March to make clear why it was an effective symbol of resistance against colonialism.

(b) What is meant by the Bretton Woods Agreement ?

Or

Why did some industrialists in nineteenth century Europe prefer hand labour over machines ?

(c) Write a short note on Jashn-i-Kashmir and Cultural Front.

Or

Briefly describe the major economic reforms introduced by the post-1947 Governments in the State.

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(Very Short Answer Type Questions)

3. Answer the following questions in few words or in few sentences

each :

- (a) Define Allegory.
- (b) What is Fatwa ?

(Objective Type Questions)

4. Do as directed :

(i) Simon Commission arrived in India in :

- (A) 1927 A.D.
- (B) 1928 A.D.
- (C) 1929 A.D.
- (D) None of these

(Choose the correct one)

(ii) Elgin Mill was started in Kanpur in

(Fill in the blank)

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(iii) The Great Depression began around 1940s.

(Write True or False)

(iv) The First Prime Minister of Jammu and Kashmir was :

(A) Sheikh Mohammad Abdullah

(B) Syed Mir Qasim

(C) Bakshi Ghulam Mohammad

(D) None of these

(Choose the correct one)

Section-B

(GEOGRAPHY)

(Long Answer Type Questions)

4 each

5. Answer the following questions in about 100-150 words each :

(a) Name the different types of soils found in India. Discuss any one of them.

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(14)

Or

How have technical and economic development led to more consumption of resources ?

(b) Describe the various institutional reforms in agriculture in India after Independence.

Or

Describe the geographical conditions required for the growth of rice.

(Short Answer Type Questions)

3 e

6. Answer the following questions in about 50-80 words each :

(a) Describe the distribution of coal in India..

Or

Why do we need to conserve Energy Resources ?

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(b) Discuss the steps to be taken to minimise environmental degradation by Industry.

Or

) Describe the Human factors required for the location of an Industry.

(c) Why are the means of transportation and communication called lifelines of a nation and its economy ?

Or

What is the significance of the border roads ?

(Very Short Answer Type Questions) 2 each

7. Answer the following questions in few words or in few sentences each :

- (a) What is a fallow land ?
- (b) Define Subsistence Farming, / ३-

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(Objective Type Questions)

8. Do as directed :

(i) In one of the following states terrace cultivation is practised. It is :

(A) Punjab

(B) Uttarakhand

(C) Haryana

(D) Plains of Uttar Pradesh

(Choose the correct one)

(ii) Tea is a beverage crop.

(Write True or False)

(iii) Total geographical area of India is ~~328.73~~ million sq. km.

(Fill in the blank)

(iv) One of the following is the most important mode of transportation in India. It is :

(A) Railways

(B) Pipeline

(C) Airways

(D) Roadways

(Choose the correct one)

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Section-C

(POLITICAL SCIENCE)

(Long Answer Type Questions)

4 each

9. Answer the following questions in about 100-120 words each :

(a) What are the different forms of power sharing in modern democracies? Give an example of each of these.

Or

What do you mean by Majoritarianism in Sri Lanka ?

(b) What is the main difference between a federal form of government and a unitary one ? Explain with an example.

Or

State any *two* differences between the local government before and after the Constitutional Amendment 1992.

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(Short Answer Type Questions)

10. Answer the following questions in about 50-80 words each :

(a) State how caste inequalities are still continuing in India.

Or

What is the status of women's representation in India's legislative bodies ?

(b) What are the various challenges faced by political parties ?

Or

What are the characteristics of a political party ?

(c) How does democracy produce an accountable, responsive and legitimate government ?

Or

What are the conditions under which democracies accommodate social diversities ?

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(Very Short Answer Type Questions)

2 each

11. Answer the following questions in few words or in few sentences each :

(a) Name the union territory created under the J & K Reorganisation Act of 2019.

(b) Identify any one challenge to democracy.

(Objective Type Questions)

1 each

12. Do as directed :

(i) The founder of the Bahujan Samaj Party was :

(A) Kanshi Ram

(B) Jotiba Phule

(C) Sahu Maharaj

(D) B.R. Ambedkar

(Choose the correct one)

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(ii) Social divisions based on religion are peculiar to India.

(Write True or False)

(iii) The type of government in Sri Lanka is :

(A) Federal

(B) Unitary

(C) Dictatorship

(D) All of these

(Choose the correct one)

(iv) Brussels is the capital city of

(Fill in the blank)

Section-D

(ECONOMICS)

(Long Answer Type Questions)

4

13. Answer the following questions in about 100-150 words each :

(a) Identify major agricultural crops grown in J & K U.T.

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Or

Describe the hurdles in economic development of Union Territory of Jammu and Kashmir.

(b) Discuss the role of tourism in generating employment in Jammu and Kashmir.

Or

What is the role of Handicraft sector in employment generation in Union Territory of J & K?

(Very Short Answer Type Questions)

2 each

14. Answer the following questions in few sentences or in few words each ;

(a) Write down the main principles of PPP.

(b) Define the term 'Sericulture'.

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(Objective Type Questions)

15. Do as directed :

(Fill in the blank)

(i) Wheat is a crop.

(ii) Mansar Lake is in Kashmir Division.

(Write True or False)

(iii) The percentage of the State's population residing in rural areas

of J and K is :

(A) 60%

(B) 70%

(C) 80%

(D) 90%

(Choose the correct one)

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(23)

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7604-C
SOCIAL SCIENCE
(New/Old/Old II Course)

Time : 3 Hours]

[Maximum Marks : 100

NOTE :— The questions in the question paper are based on revised/pre-revised and old course syllabus marked as "New Course", "Old Course" and "Old II Course" respectively and candidates are advised to appear in the relevant course meant for them. Candidates who may attempt the questions partly from "New Course", partly from "Old Course" and partly from "Old II Course" will not be awarded. Candidates are also advised to record "New Course" or "Old Course" or "Old II Course" as the case may be, on the front page of the answer-book.

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(Old II Course)

Section-A

(HISTORY)

(Long Answer Type Questions)

5 each

1. Answer the following questions in about 100-150 words each :

(a) Discuss the reasons for emergence of Nationalist Tensions in the Balkans.

Or

Briefly trace the process of German Unification.

(b) Indians were outraged by the Rowlatt Act. Explain in detail.

Or

Write a descriptive note on Khilafat and Non-cooperation Movements.

(Short Answer Type Questions)

4 each

2. Answer the following questions in about 60-80 words each :

(a) What was the Bretton Woods Agreement ?

Or

What were the causes of Great Depression ? Describe briefly.

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(b) Explain what led to the major expansion of Bombay's population in mid-nineteenth century.

Or

Industrial production in India increased during World War I.

Why ?

(c) Write a short note on the Gutenberg Press.

Or

What do you know about Vernacular Press Act ?

(Very Short Answer Type Questions)

2 each

3. Write short notes on the following in a few sentences :

(a) Frankfurt Parliament

(b) Civil Disobedience Movement

(Objective Type Questions)

1 each

4. Do as directed :

(a) The art of beautiful and stylised writing (Calligraphy/
Cartography).

(Choose the correct one)

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- (b) A mechanical device used for weaving, mold by means of ropes and pullies. (One word substitution)
- (c) of Paris refers to the re-building of Paris by Baron H. in mid-eighteenth century. (Fill in the blank)
- (d) "The Printing Press is the most powerful engine of progress and public opinion is the force that will sweep despotism away." Who said this ?
- (A) Manocchio
- (B) Louise Sebastein Mercier
- (C) Dr. Dodoo
- (D) Erasmus (Choose the correct one)

Section-B

(POLITICAL SCIENCE)

(Short Answer Type Questions)

4 ea

5. Answer the following questions in about 60-80 words each :

- (a) List down the functions of Local Urban bodies in J & K.

Or

Distinguish between a federal form of government and a unitary one. Give examples.

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(b) Discuss how caste inequalities are still continuing in India.

Or

There is socio-cultural diversity in J & K. Illustrate the statement.

(c) Trace the origin of Party System in Jammu and Kashmir.

Or

Describe how do pressure groups and movements exert influence on Politics. Give a suitable example.

(d) How do you define a good democracy? What are its features?

Or

What is full form of RTI Act? Briefly explain this Act.

(Very Short Answer Type Question)

6. Answer the following question in a few words or in a few sentences :

Explain the term Concurrent List.

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Turn Over

(Objective Type Questions)

1 each

7. Do as directed :

(i) Organisations undertaking activities to promote the interests of specific social groups like workers (Pressure group/Sectional Interest group).
(Select the correct)

(ii) Studies on democracy suggest that inequalities exist in democracies.
(True/False)

Section-C

(GEOGRAPHY)

(Long Answer Type Questions)

5 each

8. Answer the following questions in about 100-150 words each :

(a) Define resource and also classify resources.

Or

Mention various methods which help in managing and conserving resources.

(b) Write a detailed note on merits of Green Revolution in Indian Context.

Or

Elaborate the importance of forests in ecology and economy.

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(Short Answer Type Questions)

4 each

Answer the following questions in about 60-80 words each :

- (a) "J & K is adequately rich in mineral wealth." Justify the statement.

Or

What are the geographical factors which influence location of an industry ?

- (b) Iron and steel industry is termed as a 'Basic Industry'. Highlight importance of this industry in India.

Or

Define manufacturing and give a broad classification of industries.

- (c) Write a brief description of Earthquake zonation in India.

Or

India is a multi-hazard prone country. Discuss.

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(Very Short Answer Type Questions)

2 each

10. Write short notes on the following in a few sentences :

- (a) Major components of Rainwater Harvesting system
- (b) Commercial farming

(Objective Type Questions)

1 each

11. Do as directed :

- (a) Resource planning has four broad stages. (True/False)
- (b) Dark organic material that forms in top soil when plant and animal matter decays. (One word substitution)
- (c) Which soil type is also referred as cotton soil ? (Red Soil/Black Soil/White Soil) (Choose the correct one)
- (d) Which of the following is 'not' a plantation crop ?
 - (A) Coffee
 - (B) Wheat
 - (C) Sugarcane
 - (D) Rubber(Choose the correct one)

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Section-D

(ECONOMICS)

(Long Answer Type Questions)

6

2. Answer the following question in about 100-150 words each :

✓ Highlight the economic importance of primary and secondary sector in J & K.

Or

Describe the different hurdles in economic development of J & K.

(Very Short Answer Type Question)

2

13. Answer the following question in a few words or in a few sentences :

✓ Mention main principles of PPP.

(Objective Type Questions)

1 each

14. Do as directed

(a) MSME is abbreviation of (Micro, Small and Medium Enterprises/Macro Service Manager Enterprise).

(Choose the correct one)

(b) Paper Mache Craft is famous in Jammu. (True/False)

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Section-E

(DISASTER MANAGEMENT)

(Very Short Answer Type Questions)

2 each

15. Answer the following questions in a few words or in a few sentences each :

(a) State ill effects of Plastic/Polythene bags.

(b) What should be approach to help a fire burnt patient ?

(Objective Type Question)

16. Choose the correct answer :

Earthquake is a disaster. (natural/human induced)

Section-F

(ROAD SAFETY EDUCATION)

(Long Answer Type Questions)

17. Answer the following question in about 100-150 words :

Why Road Safety Education is needed .?

Or

How traffic accidents are caused ?

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Roll No.....

Total No. of Questions : 17]

[Total No. of Printed Pages : 8

10th SZJDAR22

6204-Y

SOCIAL SCIENCE

Time : 2.30 Hours]

[Maximum Marks : 80

Section-A

(Multiple Choice Questions)

1 each

1. Do as directed :

(i) Which India city is associated with Jallianwala Bagh Tragedy ?

(A) Agra

(B) Kanpur

(C) Amritsar

(D) Delhi

(Choose the correct option)

(ii) Which person is known as the 'Frontier Gandhi' ?

(A) Feroz Gandhi

(B) Nehru

(C) Khan Abdul Gaffar Khan

(D) S.C. Bose

(Choose the correct option)

(iii) When did the German Unification take place ?

(A) 1869 A.D.

(B) 1871 A.D.

(C) 1873 A.D.

(D) 1875 A.D.

(Choose the correct option)

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(iv) The Constitution of Jammu and Kashmir was adopted in year. (Fill in the blank)

(v) The construction of Banihal Tunnel was considered to be one of the greatest achievements of the reign of (Fill in the blank)

(vi) Match the following :

Column 'A'

(A) Badnami Di Chhan

(B) Sarpanch

Column 'B'

(I) Dinno Bhai Pant

(II) Prof. Ram Nath Shastri

(vii) Which one of the following is not a Kharif Crop ?

(A) Wheat

(B) Rice

(C) Maize

(D) None of these

(Choose the correct option)

(viii) A system of agriculture where a single crop is grown on a large area ?

(A) Shifting agriculture

(B) Plantation agriculture

(C) Horticulture

(D) Intensive agriculture

(Choose the correct option)

(ix) Madhya Pradesh is known for the production on which mineral ?

(A) Oil Deposits

(B) Bauxite

(C) Mica

(D) Gold

(Choose the correct option)

(x) Which state is the largest cotton textile producing in India ?

(A) Gujarat

(B) Tamil Nadu

(C) Maharashtra

(D) West Bengal

(Choose the correct option)

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B-4-Y

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(xi) Where and when was the real beginning of Iron and Steel Industry ?

- (A) Jamshedpur in 1907 (B) Porto Novo in 1830
(C) Mysore in 1919 (D) None of these

(Choose the correct option)

(xii) What is the main problem in the present industrialisation of India ?

- (A) Rural (B) Capital
(C) Transfer (D) None of these

(Choose the correct option)

(xiii) Which form of government is found in most of the countries of the world ?

- (A) Dictatorship (B) Democracy
(C) Absolute monarchy (D) Rule of the army

(Choose the correct option)

(xiv) Which country in South Asia never had a democratic government ?

- (A) Bhutan (B) India
(C) Sri Lanka (D) Myanmar

(Choose the correct option)

(xv) The Jammu and Kashmir Re-organization Act of 2019 came into effect on (Fill in the blank)

(xvi) As per the 1st Schedule, Section 9, UT of J & K shall have members.

- (A) 4 (B) 5
(C) 6 (D) 7

(Choose the correct option)

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(xvii) The heritage monument Amar Mahal is located in :

- (A) Ladakh (B) Reasi
(C) Jammu (D) Kashmir

(Choose the correct option)

(xviii) MSME stands for

(xix) NGO stands for ..

(xx) Choose which one of the following is not a natural disaster ?

- (A) Floods (B) Earthquake
(C) Fire (D) Landslide

(Choose the correct option)

Section-B

(Short Answer Type Questions)

3 each

Note :- Answer the following questions in about 40 to 60 words each.

2. Why did the British Government's decide to abolish corn laws ?

Or

Why did some Industrialists in Nineteenth Century Europe prefer hand labour over machines ?

3. Why Gandhiji decided to withdraw the Non-cooperation Movement ?

4. Explain the causes of the Great Depression.

Or

Why did industrial production in India increase during the First World War ?

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5. What are the characteristics of Intensive Subsistence Farming ?
6. Distinguish between Conventional and Non-conventional sources of Energy.
7. Read the following passage and answer the question at the end :

Union List : Comprises the subjects of national importance like defence, foreign affairs, atomic energy, banking, post and telegraph are included in the Union List. The central government can pass laws on the subjects mentioned in the union list.

State List : Comprises those important subjects on which the state government can pass laws. Subjects like police, local government, trade and commerce within the state and agriculture are included in the state list.

The Concurrent List : Comprises the subject like education, forests, marriages which are of common concern both to the center and the state governments. Ordinarily, both the central and the state governments can frame laws on these subjects.

Classify the following subjects under the union, state and concurrent lists :

Defence, Police, Atomic Energy, Marriages, Agriculture.

8. Mention different aspects of life in which women are discriminated or disadvantaged in India.

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9. What are the various challenges faced by political parties ?
10. How employment potential in Jammu and Kashmir can be increased ?
11. What should be the approach to help a fire burnt patient ?

Section-C

(Long Answer Type Questions)

5 each

Note :- Answer the following questions in about **100 to 130** words each.

12. Define Minerals. What are various metallic and non-metallic minerals found in Jammu and Kashmir ? <https://www.jkboseonline.com>
13. Briefly trace the process of German Unification.
14. Write in detail the types of soil found in India.
15. State one prudential reason and one moral reason for power sharing with an example from the Indian context.
16. Read the extract and answer the questions that follows :

Print created the possibility of wide circulation of ideas and introduced a new world of debate and discussion. Even those who disagreed with establishment authorities could now print and circulate their ideas. Through the printed message, they could persuade people to think differently and move then to action. This had significance in different spheres of life.

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The ideas of scientists and philosophers now became more accessible to the common people. Ancient and medieval scientific texts were compiled and published and maps and scientific diagrams were widely printed. When scientists like Issac Newton began to publish their discoveries, they could influence a much wider circle of scientifically minded readers. The writings of thinkers such as Thomas Paine, Voltaire and Jean Jacques Rousseau were also widely printed and read. Thus their ideas about science, reason and rationality found their way into popular literature.

Print popularised the ideas of the enlightenment thinkers. Collectively, their writings provided a critical commentary on tradition, superstition and despotism. They argued for the rule of reason rather than custom and demanded that everything be judged through the application of reason and rationality. They attacked the sacred authority of the church and the despotic power of the state, thus eroding the legitimacy of a social order based on tradition. The writings of Voltaire and Rousseau were read widely; and those who read these, books saw the world through new eyes, eyes that were questioning, critical and rational.

Questions :

- (a) Evaluate the effectiveness of print in the transmission of ideas and cultures.

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- (b) To what extent do you agree that scientific ideas were circulated through print ? Give only one aspect.
- (c) To what extent did print culture create conditions for French Revolution ? Cite any one evidence to support your answer.

Section-D

(Map Skill Based Question)

17. (a) Indicate the following in a given outline map of India :
- (i) Port Kandla
 - (ii) North-South Corridor
 - (iii) Railway line from Delhi to Kolkata
- (b) On the given outline map of the world shade and label any two unitary countries.

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B-5-Z

Roll No.

Total No. of Questions : 36]

[Total No. of Printed Pages : 8

10th SZJDAR22

6205-Z

SCIENCE

(Physics, Chemistry and Life Science)

Time : 2.30 Hours]

[Maximum Marks : 80

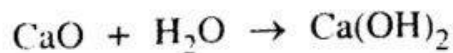
Section-A

1. What type of image is formed in a plane mirror ?
2. State the relation between object distance, image distance and focal length of a spherical mirror.
3. Why does a ray of light bend when it travels from one medium to another ?

Or

Which has more power : a thick convex lens or a thin convex lens made of same glass ?

4. Name the phenomenon which causes the twinkling of stars.
5. Which effect of current is utilised in an electric light bulb ?
6. What type of reaction is represented by equation ?



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B-5-Z

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7. What special name is given to the corrosion of iron ? 1
8. Give the IUPAC name of ethylene. *Ethene*

Or

- What is the common name of propanone ? 1
9. Name the metal which is used for galvanising iron. 1
10. What is the number of electrons in Na^+ ? 1
11. Which property of graphite is utilised in making electrodes ? 1
12. Which animal's sting contain formic acid ? 1
13. Which plant hormone makes a stem bend towards light ? 1

For question nos. 14 to 16, two statements (Assertion A and Reason R) are given. Select the correct answer to these questions from codes A, B, C and D as given below :

- (A) Both A and R are true and R is correct explanation of the assertion.
- (B) Both A and R are true but R is not the correct explanation of the assertion.
- (C) A is true but R is false.
- (D) A is false but R is true.
14. **Assertion (A)** : Mendel selected the pea plant for his experiments.
Reason (R) : Pea plant is cross-pollinating and has unisexual flowers. 1
15. **Assertion (A)** : Ozone is both beneficial and damaging.
Reason (R) : Stop the release of chlorofluorocarbons to protect the ozone.
16. **Assertion (A)** : Decomposers act as cleaning agents of the environment.
Reason (R) : The decomposers recycle waste material in the hydrosphere. 1

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B-5-Z

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Q. Nos. 17 to 20 contain 5 sub-parts each. You are expected to answer any *four* sub-parts in these questions.

17. Electric motor works on the principle that a current carrying conductor placed perpendicular to a magnetic field experience a force.
- (i) The device used for producing electric current is called a :
- (A) Generator (B) Galvanometer
(C) Ammeter (D) Motor
- (ii) The phenomena of electromagnetic induction is :
- (A) The process of charging a body
(B) The process of generating magnetic field due to current passing through a coil
(C) Producing electric current due to relative motion between a magnet and the coil
(D) The process of rotating a coil of an electric motor
- (iii) The essential difference between an AC generator and a DC generator is that :
- (A) AC generator has an electromagnet while a DC generator has permanent magnet
(B) DC generator will generate a higher voltage
(C) AC generator will generate a higher voltage
(D) AC generator has slip rings while DC generator has a commutator
- (iv) Current carrying conductor is a :
- (A) Permanent magnet (B) Temporary magnet
(C) Natural magnet (D) None of these
- (v) Which among the following produces strong magnetic field ?
- (A) Permanent magnet (B) Natural magnet
(C) Bar magnet (D) Electromagnet $1 \times 4 = 4$

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18. In the modern periodic table the elements are arranged in increasing order of their atomic numbers :

(i) Which of the following statements about the modern periodic table is correct ?

(A) It has 18 horizontal rows known as periods

~~(B)~~ It has 7 vertical columns known as periods

(C) It has 18 vertical columns known as groups

(D) It has 7 horizontal rows known as groups

(ii) The elements A, B, C, D and E have atomic numbers 9, 11, 17, 12 and 13 respectively. Which pair of elements belong to the same group ?

~~(A)~~ A and B

(B) B and D

~~(C)~~ A and C

(D) D and E

(iii) Which of the following elements exhibit maximum number of valence electrons ?

~~(A)~~ Na

(B) Al

(C) Si

~~(D)~~ P

(iv) Where would you locate the element with electronic configuration 2, 8 in the modern periodic table ?

(A) Group 8

(B) Group 2

~~(C)~~ Group 18

~~(D)~~ Group 10

(v) Which of the given elements A, B, C, D and E with atomic numbers 2, 3, 7, 10 and 30 respectively belongs to the same period ?

(A) A, B, C

~~(B)~~ B, C, D

(C) A, D, E

(D) B, D, E

1×4=4

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19. Plaster of Paris is calcium sulphate hemihydrate. It is commonly known as P.O.P. :

(i) The chemical formula of Plaster of Paris is :

- (A) $\text{CaSO}_4 \cdot \text{H}_2\text{O}$ (B) $2\text{CaSO}_4 \cdot 3\text{H}_2\text{O}$
 (C) $2\text{CaSO}_4 \cdot \text{H}_2\text{O}$ (D) $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$

(ii) Plaster of Paris is prepared from :

- (A) Slaked lime (B) Gypsum
 (C) Baking powder (D) Bleaching powder

(iii) Plaster of Paris is used by doctors for setting fractured bones because when it is mixed with water, it sets into :

- (A) Hard mass (B) Soft mass
 (C) Lump (D) Fluffy mass

(iv) Plaster of Paris is prepared by heating one of the following to a temperature of 100°C . This is :

- (A) $\text{CaSO}_3 \cdot 2\text{H}_2\text{O}$ (B) $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$
 (C) $\text{CaCO}_3 \cdot 2\text{H}_2\text{O}$ (D) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

(v) When Plaster of Paris is kept uncovered for a long time, it gets :

- (A) Dehydrated (B) Hydrated
 (C) Moistureless (D) None of these $1 \times 4 = 4$

20. Anything in the environment which can be used is called a natural resource ?

(i) Which of the following is not a natural resource ?

- (A) Soil (B) Water
 (C) Electricity (D) Natural gas

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- (ii) The most dwindling natural resource in the world is :
- (A) Water (B) Soil
(C) Sunlight (D) Forests
- (iii) Which of the following is not a fossil fuel ?
- (A) LPG (B) Natural gas
(C) Biogas (D) CNG
- (iv) The major programme started to replenish the damaged forest is called :
- (A) Horticulture (B) Tissue culture
(C) Agriculture (D) Silviculture
- (v) The three R's which can help us to conserve natural resources for long term use are :
- (A) Recycle, Regenerate, Reuse
(B) Reduce, Regenerate, Reuse
(C) Reduce, Reuse, Redistribute
(D) Reduce, Recycle, Reuse

1×4=4

Section-B

21. What happens to the size of pupil of our eye :

- (i) in dim light
(ii) in bright light ?

Or

Give the scientific names of the following parts of the eye :

- (i) Carries signals from an eye to the brain
(ii) A hole in the middle of the iris

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22. Show with the help of a ray diagram, the defect of vision called myopia and how it is corrected by lens. 2

23. Explain vegetative propagations with the help of two examples.

Or

What is the basic difference between asexual reproduction and sexual reproduction ? 2

24. Find the power of the lamp which draws 0.5 A current when connected to 12 V battery. 2

25. Define breathing. State the difference between breathing and respiration. <https://www.jkboseonline.com> 2

26. What is Garbage ? What does garbage consist of ? 2

Section-C

27. State and explain Joule's law of heating.

Or

Why a series arrangement is not used for connecting domestic electrical appliances in a circuit ? 3

28. What is meant by conventional sources of energy ? Write names of two such sources. 3

29. What is a redox reaction ? Explain with an example. 3

30. What is corrosion ? How can it be prevented ? 3

31. What is a plant hormone ? Name two plant hormones and state one function of each. 3

32. Draw a neat labelled diagram of a flower showing its various parts. What are stamen and carpel in a flower ? 3

33. What is meant by acquired and inherited traits ? Explain with one example each. 3

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Section-D

34. Define Nutrition. Explain different modes of nutrition with example. Why is nutrition necessary for an organism ?

Or

Define Excretion. Name the excretory unit of a kidney. 5

35. Construct ray diagrams to illustrate the formation of a virtual image using :

- (i) A converging lens
- (ii) A diverging lens

Or

State and explain the laws of refraction of light with the help of labelled diagram. Define refractive index of a substance. 5

36. What is the unique property of carbon atom ? How is this property helpful to us ? Explain why diamond is hard while graphite is soft.

Or

What is a functional group ? Write *three* common functional groups. Name the functional group of the following compounds :

- (i) CH_3COOH
- (ii) $\text{CH}_3\text{CH}_2\text{CHO}$
- (iii) $\text{C}_2\text{H}_5\text{OH}$

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Roll No.....

Total No. of Questions : 17]

[Total No. of Printed Pages : 8

10th SZJDAR22

6204-Z

SOCIAL SCIENCE

Time : 2.30 Hours]

[Maximum Marks : 80

Section-A

(Multiple Choice Questions)

1 each

1. Do as directed :

(i) Which Indian city is associated with Jallianwala Bagh Tragedy ?

(A) Agra

(B) Kanpur

(C) Amritsar

(D) Delhi

(Choose the correct option)

(ii) Which person is known as the 'Frontier Gandhi' ?

(A) Feroz Gandhi

(B) Nehru

(C) Khan Abdul Gaffar Khan

(D) S.C. Bose

(Choose the correct option)

(iii) Which one of these underground societies was formed by Giuseppe Mazzini ?

(A) Young Germany

(B) Young Italy

(C) Young Asia

(D) Young World

(Choose the correct option)

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(iv) was the literary journal of Cultural Congress.
(Fill in the blank)

(v) became the Second Prime Minister of Jammu and Kashmir.
(Fill in the blank)

(vj) Match the following :

Column 'A'

- (A) Dina Nath Nadim
- (B) Prof. Ram Nath Shastri

Column 'B'

- (I) Badnami Di Chhan
- (II) Bombur Te Yemberzal

(vfi) Which state is leading producer of rice among these ?

- (A) U.P.
- (B) West Bengal
- (C) Andhra Pradesh
- (D) Punjab

(Choose the correct option)

(viii) Which among the following is not a type of commercial agriculture ?

- (A) Dairy Farming
- (B) Plantation agriculture
- (C) Grain Farming
- (D) Shifting cultivation

(Choose the correct option)

(ix) Which one of the following minerals is a fossil fuel ?

- (A) Barium
- (B) Zircon
- (C) Coal
- (D) Uranium

(Choose the correct option)

(x) When and where was the First Jute Mill established in India ?

- (A) Mumbai in 1854
- (B) Surat in 1914
- (C) Rishra in 1855
- (D) None of these

(Choose the correct option)

10th SZJDAR22—6204—Z
B-4-Z



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(xi) What is the percentage of industrial capital involved in cotton textile industry in India ?

(A) 15%

(B) 16%

(C) 20%

(D) 26%

(Choose the correct option)

(xii) Who set up the Tata Iron and Steel Company in India ?

(A) Jagmohan Dalmiya

(B) Lord Warren Hastings

(C) Jamshedji Tata

(D) Rakesh Shiu Singh Birla

(Choose the correct option)

(xiii) Which one of these is a feature of dictatorship ?

(A) No Constitution

(B) No value of public opinion.

(C) Monopoly over power

(D) All of these

(Choose the correct option)

(xiv) Democracy is based on the ideas of :

(A) Freedom

(B) Negotiation

(C) Deliberation

(D) Both (B) and (C)

(Choose the correct option)

(xv) administers the UT of Jammu and Kashmir.

(Fill in the blank)

(xvi) Union territory of J & K was formed in the year :

(A) 2018

(B) 2019

(C) 2020

(D) 2021

(Choose the correct option)

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B-4-Z

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(xvii) The Jammu Region is also known as the land of :

- (A) Temples (B) Gompas
(C) Scenic Beauty (D) Chota Kashmir

(Choose the correct option)

(xviii) Full form of JKSF is

(xix) The magnitude of the earthquake measured by :

- (A) Seismometer (B) Richter Scale
(C) Seismic Wave (D) None of these

(Choose the correct option)

(xx) NDMA stands for

Section-B

(Short Answer Type Questions)

3 each

Note :- Answer the following questions in about 40 to 60 words each.

2. Why did the British Government decide to abolish corn laws ?

Or

Why did some Industrialists in Nineteenth Century Europe prefer hand labour over machines ?

3. What were the reasons for launching the Civil Disobedience Movement ?

4. Explain the causes of the Great Depression.

Or

Why did industrial production in India increase during the First World War ?

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B-4-Z

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5. What are the characteristics of Intensive Subsistence Farming ?
6. Distinguish between Conventional and Non-conventional sources of Energy.

7. Read the following passage and answer the question at the end :

Union List : Comprises the subjects of national importance like defence, foreign affairs, atomic energy, banking, post and telegraph are included in the Union List. The central government can pass laws on the subjects mentioned in the union list.

State List : Comprises those important subjects on which the state government can pass laws. Subjects like police, local government, trade and commerce within the state and agriculture are included in the state list.

The Concurrent List : Comprises the subject like education, forests, marriages which are of common concern both to the center and the state governments. Ordinarily, both the central and the state governments can frame laws on these subjects.

Classify the following subjects under the union, state and concurrent lists :

Defence, Police, Atomic Energy, Marriages, Agriculture.

8. Mention different aspects of life in which women are discriminated or disadvantaged in India.

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9. What are the various challenges faced by political parties ?
10. How employment potential in Jammu and Kashmir can be increased ?
11. How to communicate during and after a disaster ?

Section-C

(Long Answer Type Questions)

5 each

Note :- Answer the following questions in about 100 to 130 words each.

12. Define Minerals. What are various metallic and non-metallic minerals found in Jammu and Kashmir ? <https://www.jkbboseonline.com>
13. Briefly trace the process of German Unification.
14. Write in detail the types of soil found in India.
15. State one prudential reason and one moral reason for power sharing with an example from the Indian context.
16. Read the extract and answer the questions that follows :

Print created the possibility of wide circulation of ideas and introduced a new world of debate and discussion. Even those who disagreed with establishment authorities could now print and circulate their ideas. Through the printed message, they could persuade people to think differently and move then to action. This had significance in different spheres of life.

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The ideas of scientists and philosophers now became more accessible to the common people. Ancient and medieval scientific texts were compiled and published and maps and scientific diagrams were widely printed. When scientists like Issac Newton began to publish their discoveries, they could influence a much wider circle of scientifically minded readers. The writings of thinkers such as Thomas Paine, Voltaire and Jean Jacques Rousseau were also widely printed and read. Thus their ideas about science, reason and rationality found their way into popular literature.

Print popularised the ideas of the enlightenment thinkers. Collectively, their writings provided a critical commentary on tradition, superstition and despotism. They argued for the rule of reason rather than custom and demanded that everything be judged through the application of reason and rationality. They attacked the sacred authority of the church and the despotic power of the state, thus eroding the legitimacy of a social order based on tradition. The writings of Voltaire and Rousseau were read widely; and those who read these books saw the world through new eyes, eyes that were questioning, critical and rational.

Questions :

- (a) Evaluate the effectiveness of print in the transmission of ideas and cultures.

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B-4-Z



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- (b) To what extent do you agree that scientific ideas were circulated through print ? Give only one aspect.
- (c) To what extent did print culture create conditions for French Revolution ? Cite any one evidence to support your answer.

Section-D

(Map Skill Based Question)

17. (a) Indicate the following in a given outline map of India :
- (i) Port Kandla
 - (ii) North-South Corridor
 - (iii) Railway line from Delhi to Kolkata
- (b) On the given outline map of the world shade and label any two unitary countries.

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B-4-X

Roll No

Total No. of Questions : 17]

[Total No. of Printed Pages : 8

10th SZJDAR22

6204-X

SOCIAL SCIENCE

Time : 2.30 Hours]

[Maximum Marks : 80

Section-A

(Multiple Choice Questions)

1 each

1. Do as directed :

(i) Which Indian city is associated with Jallianwala Bagh Tragedy ?

- (A) Agra (B) Kanpur
(C) Amritsar (D) Delhi

(Choose the correct option)

(ii) Which person is known as the 'Frontier Gandhi' ?

- (A) Feroz Gandhi
(B) Nehru
(C) Khan Abdul Gaffar Khan
(D) S.C. Bose

(Choose the correct option)

(iii) Who took charge the France after the French Revolution ?

- (A) National Assembly (B) Napoleon
(C) Louis XVI (D) Estate General

(Choose the correct option)

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B-4-X

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- (iv) 'Maefi Nama' was a literary work of
(Fill in the blank)
- (v) In 1995 as the Education Minister under Bakshi Ghulam Muhammad drafted the Education Policy of the State.
(Fill in the blank)

(vi) Match the following :

Column 'A'

- (A) Mukraris
(B) Jagirs

Column 'B'

- (I) Land grant lieu of services
(II) Custodian grants

(vii) Saffron is cultivated in :

- (A) Haryana
(C) Assam

- (B) Himachal Pradesh
(D) Jammu and Kashmir

(Choose the correct option)

(viii) India is the leading producer of which crop among these ?

- (A) Rice
(C) Millet

- (B) Wheat
(D) Sugarcane

(Choose the correct option)

(ix) Which mineral is also known as black gold ?

- (A) Petroleum
(C) Bauxite

- (B) Coal
(D) Mica

(Choose the correct option)

(x) When was the first modern cotton textile mill established and where ?

- (A) Hugli in 1855
(C) Fort William in 1814

- (B) Fort Gloster in 1818
(D) Suran in 1860

(Choose the correct option)

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B-4-X

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(xi) Where is the steel industry mostly confined to ?

- (A) Tamil Nadu (B) West Bengal
(C) Orissa (D) U.P.

(Choose the correct option)

(xii) India stands first as world producer of :

- (A) Sugar (B) Jute
(C) Khandsari and Gur (D) None of these

(Choose the correct option)

(xiii) What is the most basic outcome of democracy ?

- (A) Significant decision-making
(B) Powerful repressive governance
(C) Accountability of the citizens
(D) None of these

(Choose the correct option)

(xiv) A democratic government is a government.

- (A) Powerful (B) Fruitful
(C) Repressive (D) Legitimate

(Choose the correct option)

(xv) The Legislative Assembly of Jammu and Kashmir UT shall have seats. (Fill in the blank)

(xvi) The UT of J & K have allocated Lok Sabha seats :

- (A) 4 (B) 5
(C) 6 (D) 7

(Choose the correct option)



(xvii) Which tourist destination of Jammu is also called Chota Kashmir ?

- (A) Chenab Valley (B) Bhaderwah
(C) Shahadara Sharief (D) Poonch

(Choose the correct option)

(xviii) PMRY stands for

(xix) BSL stands for

(xx) How many years takes plastic bags for its decomposition ?

- (A) 200 years (B) About 400 years
(C) 100 years (D) About 300 years

(Choose the correct option)

Section-B

(Short Answer Type Questions)

3 each

Note :- Answer the following questions in about 40 to 60 words each.

2. Why did the British Government's decide to abolish corn laws ?

Or

Why did some Industrialists in Nineteenth Century Europe prefer hand labour over machines ?

3. Why Indians were outraged by the Rowlatt Act ?

4. Explain the causes of the Great Depression.

Or

Why did industrial production in India increase during the First World War ?

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5. What are the characteristics of Intensive Subsistence Farming ?
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- Defence, Police, Atomic Energy, Marriages, Agriculture.
8. Mention different aspects of life in which women are discriminated or disadvantaged in India.

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B-4-X

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9. What are the various challenges faced by political parties ?
10. How employment potential in Jammu and Kashmir can be increased ?
11. Write in brief the role of search and rescue team during a disaster.

Section-C

(Long Answer Type Questions)

5 each

Note :- Answer the following questions in about 100 to 130 words each.

12. Define Minerals. What are various metallic and non-metallic minerals found in Jammu and Kashmir ?
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Questions :

- (a) Evaluate the effectiveness of print in the transmission of ideas and cultures.

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- (b) To what extent do you agree that scientific ideas were circulated through print ? Give only one aspect. 2
- (c) To what extent did print culture create conditions for French Revolution ? Cite any one evidence to support your answer. 2

Section-D

(Map Skill Based Question)

17. (a) Indicate the following in a given outline map of India :
- (i) Port Kandla
 - (ii) North-South Corridor
 - (iii) Railway line from Delhi to Kolkata 1+1+1=3
- (b) On the given outline map of the world shade and label any *two* unitary countries. 1+1=2

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B-3-B

Roll No.

Total No. of Questions : 40+20+20]

[Total No. of Printed Pages : 24

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8003-B

MATHEMATICS

(New/Old/Old II Course)

Time : 3 Hours]

[Maximum Marks : 80

NOTE :— The questions in the question paper are based on revised/pre-revised and old course syllabus marked as "New Course", "Old Course" and "Old II Course" respectively and candidates are advised to appear in the relevant course meant for them. Candidates who may attempt the questions partly from "New Course", partly from "Old Course" and partly from "Old II Course" will not be awarded. Candidates are also advised to record "New Course" or "Old Course" or "Old II Course" as the case may be, on the front page of the answer-book.

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B-3-B

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(New Course)**Section-A**

Note :— Q. Nos. 1 to 10 are MCQs of 1 mark each.

1. H.C.F. of 135 and 225 is :

(A) 15

(B) 9

(C) 45

(D) None of these

2. Every constant is a polynomial of degree :

(A) 1

(B) 2

(C) 0

(D) None of these

3. If in a quadratic equation $ax^2 + bx + c = 0$ ($a \neq 0$), $c = 0$, then roots of quadratic equation are :

(A) One root is 0

(B) Both roots are 0

(C) None root is 0

(D) None of these

4. If a, b, c are in A.P., then b is equal to :

(A) $\frac{a-c}{2}$

(B) $\frac{c-a}{2}$

(C) $\frac{a+c}{2}$

(D) None of these

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B-3-B



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5. Any point which lies on x -axis has y -coordinate equal to :
- (A) 1 (B) 0
(C) -1 (D) None of these
6. A tangent can meet the circle at :
- (A) 2 points (B) 1 point
(C) Centre of circle (D) None of these
7. The area of a circle whose circumference is 44 cm (using $\pi = \frac{22}{7}$) is :
- (A) $\pi \text{ cm}^2$ (B) $\frac{\pi}{2} \text{ cm}^2$
(C) $2\pi \text{ cm}^2$ (D) None of these
8. Sum of the probability of an event and its complement is always equal to :
- (A) 0 (B) 1
(C) Not defined (D) None of these
9. The value of $\frac{\sec 22^\circ}{\operatorname{cosec} 68^\circ}$ is :
- (A) -1 (B) 0
(C) 1 (D) None of these

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B-3-B

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10. The slant height of a Right circular cone of radius r cm and height h cm is equal to :

(A) $h^2 + r^2$

(B) $\sqrt{h^2 + r^2}$

(C) $h^2 - r^2$

(D) $\sqrt{h^2 - r^2}$

Note :- Q. Nos. 11 to 15 are fill in the blank with 1 mark each.

11. The common point a tangent to a circle and the circle is called

12. Consistent equations with unique solution meet at

(one point/no point)

13. In an A.P. series $S_n - S_{n-1} = \dots\dots\dots$ (a_{n-1}/a_n)

Or

Find the 10th term of the series 4, 8, 12,

14. $\operatorname{cosec}^2 \theta - \cot^2 \theta = \dots\dots\dots$ (0/1)

15. All circles are

(congruent/similar)

Note :- Q. Nos. 16 to 20 are short answer type questions carry 1 mark each.

16. Define Line of Sight.

17. Give two different examples of pair of similar figures.

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18. State the converse of Basic Proportionality Theorem.

Or

State Pythagoras Theorem.

19. Define y-coordinate or ordinate.

20. If diameter of sphere = 2 unit, find the volume of sphere.

Section-B

Note :— Q. Nos. 21 to 26 carry 2 marks each.

21. A cubical block of side 7 cm is surmounted by a hemisphere. Find the surface area of the solid.

22. Find the H.C.F. of 96 and 404 by the prime factorisation method. Hence find their L.C.M.

23. Check whether the pair of linear equations are consistent or inconsistent $\frac{3}{2}x + \frac{5}{3}y = 7$, $9x - 10y = 14$.

24. If $\sin A = \frac{3}{4}$, calculate $\cos A$ and $\tan A$.

Or

Find the trigonometric ratios of 45° .

BAJKLK22—8003-1

3-B

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25. One card is drawn from a well-shuffled deck of 52 cards. Calculate the probability that the card will :
- be an ace
 - not be an ace
26. The wickets taken by a bowler in 10 cricket matches are as follows :

2 6 4 5 0 2 1 3 2 3

From the frequency distribution table of the given data, find mode of the data.

Section-C

Note :— Q. Nos. 27 to 34 carry 3 marks each.

27. Find the zeros of the quadratic polynomial and verify the relationship between the zeros and the coefficients

$$3x^2 - x - 4$$

Or

Divide $3x^3 + x^2 + 2x + 5$ by $1 + 2x + x^2$ and verify the division algorithm.

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28. Solve the following pair of linear equations by substitution method :

$$x + y = 14$$

$$x - y = 4$$

29. Find the roots of the quadratic equation, if they exist, using quadratic formulae

$$2x^2 - 2\sqrt{2}x + 1 = 0$$

30. Check whether 301 is a term of the list of numbers 5, 11, 17, 23, 29,

Or

Find the 11th term from the last term (towards the first term) of the A.P. series :

$$10, 7, 4, 1, \dots, -62$$

31. Prove that :

$$\frac{\cos A}{1 + \sin A} + \frac{1 + \sin A}{\cos A} = 2 \sec A$$

32. Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle.

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Or

Prove that the tangents drawn at the ends of a diameter of a circle are parallel.

33. Find the area of the sector of a circle with radius 4 cm and of angle 30° . Also find the area of corresponding major sector (using $\pi = 3.14$).
34. A metallic sphere of radius 4.2 cm is melted and recast into the shape of a cylinder of radius 6 cm. Find the height of cylinder.

Section-D.

Note :— Q. Nos. 35 to 40 carry 4 marks each.

35. Find the roots of the equation $\frac{1}{x+4} - \frac{1}{x-7} = \frac{11}{30}$, $x \neq -4$, $x \neq 7$.

Or

Sum of the areas of two squares is 468 m^2 . If the difference of their perimeters is 24 m, find the sides of two squares.

The angles of elevation of the top of a tower from two points of 4 m and 9 m from the base of the tower and in the same straight line with it are complementary. Find the height of the tower.

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37. Find the relation between x and y such that the point (x, y) is equidistant from the points $(7, 1)$ and $(3, 5)$.

Or

Find the value of K , if the points $A(2, 3)$, $B(4, K)$ and $C(6, -3)$ are collinear. <https://www.jkboseonline.com>

38. In an equilateral triangle, D is a point on the side BC , such that

$$BD = \frac{1}{3}BC. \text{ Prove that :}$$

$$9(AD)^2 = 7(AB)^2.$$

Or

Prove that the ratio of the areas of two similar triangles is equal to the square of the ratio of their corresponding sides.

9. Construct a triangle similar to a given triangle ABC with its sides equal to $\frac{5}{3}$ of the corresponding sides of the triangle ABC (i.e. of scale factor $\frac{5}{3}$).

The table below gives the percentage distribution of female teachers in the primary school of rural areas of various States and U.T. of India. Find mean percentage of female teachers using step deviation method :

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Percentage of Female Teachers	No. of States/U.T.
15—25	6
25—35	11
35—45	7
45—55	4
55—65	4
65—75	2
75—85	1

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Roll No.

Total No. of Questions : 40+20+20

[Total No. of Printed Pages : 24

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8003-B

MATHEMATICS

(New/Old/Old II Course)

Time : 3 Hours]

[Maximum Marks : 80

NOTE :— The questions in the question paper are based on revised/pre-revised and old course syllabus marked as “New Course”, “Old Course” and “Old II Course” respectively and candidates are advised to appear in the relevant course meant for them. Candidates who may attempt the questions partly from “New Course”, partly from “Old Course” and partly from “Old II Course” will not be awarded. Candidates are also advised to record “New Course” or “Old Course” or “Old II Course” as the case may be, on the front page of the answer-book.

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(New Course)**Section-A**

Note :- Q. Nos. 1 to 10 are MCQs of 1 mark each.

- H.C.F. of 135 and 225 is :

(A) 15 (B) 9
(C) 45 (D) None of these
- Every constant is a polynomial of degree :

(A) 1 (B) 2
(C) 0 (D) None of these
- If in a quadratic equation $ax^2 + bx + c = 0$ ($a \neq 0$), $c = 0$, then roots of quadratic equation are

(A) One root is 0 (B) Both roots are 0
(C) None root is 0 (D) None of these
- If a, b, c are in A.P., then b is equal to :

(A) $\frac{a-c}{2}$ (B) $\frac{c-a}{2}$
(C) $\frac{a+c}{2}$ (D) None of these

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3-B

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33. Find the area of the sector of a circle with radius 4 cm and of angle 30° . Also find the area of corresponding major sector (using $\pi = 3.14$).
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The angles of elevation of the top of a tower from two points of 4 m and 9 m from the base of the tower and in the same straight line with it are complementary. Find the height of the tower.

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Or

Find the value of K , if the points $A(2, 3)$, $B(4, K)$ and $C(6, -3)$ are collinear.

38. In an equilateral triangle, D is a point on the side BC , such that $BD = \frac{1}{3}BC$. Prove that :

$$9(AD)^2 = 7(AB)^2.$$

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Percentage of Female Teachers	No. of States/U.T.
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65—75	2
75—85	1

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MATHEMATICS

(New/Old/Old II Course)

Time : 3 Hours]

[Maximum Marks : 100

NOTE :— The questions in the question paper are based on revised/pre-revised and old course syllabus marked as "New Course", "Old Course" and "Old II Course" respectively and candidates are advised to appear in the relevant course meant for them. Candidates who may attempt the questions partly from "New Course", partly from "Old Course" and partly from "Old II Course" will not be awarded. Candidates are also advised to record "New Course" or "Old Course" or "Old II Course" as the case may be, on the front page of the answer-book.

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(Old Course)

1. Choose the correct answer :

(i) L.C.M. of 21 and 91 is :

(A) 162

(B) 182

(C) 192

(D) None of these 1

(ii) Zeros of the quadratic polynomial $x^2 + 7x + 10$ are :

(A) -2, 5

(B) -2, -5

(C) 2, 5

(D) None of these 1

(iii) If $\tan A = \frac{4}{3}$, then $\cos A$ is equal to :(A) $\frac{5}{3}$ (B) $\frac{3}{5}$ (C) $\frac{4}{5}$

(D) None of these 1

(iv) The linear equations $a_1x + b_1y + c_1 = 0$ and $a_2x + b_2y + c_2 = 0$ have infinitely solution, if :(A) $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$ (B) $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ (C) $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$

(D) None of these 1

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(v) ABC and BDE are two equilateral triangles such that D is the midpoint of BC. Ratio of the areas of the triangles ABC and BDE is :

(A) 2 : 1

(B) 1 : 2

(C) 4 : 1

(D) 1 : 4

1

(vi) Write the first three terms of A.P. when the first term a and common difference d are as :

$$a = -2 \text{ and } d = 0$$

1

2. Find a relation between x and y such that the point (x, y) is equidistant from the points $(7, 1)$ and $(3, 5)$. 2
3. If tangents PA and PB from a point P to a circle with centre O are inclined to each other at an angle of 80° , then find $\angle POA$. 2
4. A ladder 15 m long reaches a window 10 m above the ground. Find the distance of the foot of the ladder from the base of the wall. 2
5. Use Euclid's division algorithm to find H.C.F. of 196 and 38,220. 4
6. Check whether the polynomial $x^2 + 3x + 1$ is a factor of the polynomial $3x^4 + 5x^3 - 7x^2 + 2x + 2$. 4
7. Prove that the perpendicular at the point of contact to the tangent to a circle passes through the centre. 4

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8. Find the roots of the quadratic equation $2x^2 - x + \frac{1}{8} = 0$ by factorization.
9. Find the area of a quadrant of a circle whose circumference is 22 cm.
10. A bag contains 3 red balls and 5 black balls. A ball is drawn at random from the bag, what is the probability that the ball drawn is :
- (i) red ?
- (ii) not red ?
11. Solve the pair of linear equations $3x + 4y = 10$ and $2x - 2y = 2$ by substitution method.

Or

The coach of a cricket team buys 7 bats and 6 balls for ₹ 3,800. Later, she buys 3 bats and 5 balls for ₹ 1,750. Find the cost of each bat and each ball.

12. Find the roots of the quadratic equation $2x^2 + x - 4 = 0$ by the method of completing the square.

Or

The altitude of a right triangle is 7 cm less than its base. If the hypotenuse is 13 cm, find the other two sides.

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13. Find the sum of the first 40 positive integers divisible by 6.

Or

Two A.P.'s have the same common difference. The difference between their 100th terms is 100. What is the difference between their 1,000th terms ?

6

14. If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio. Prove it.

Or

In a triangle, if the square of one side is equal to the sum of the squares of the other two sides, then the angle opposite the first side is a right angle. Prove it.

6

15. If (1, 2), (4, y), (x, 6) and (3, 5) are the vertices of a parallelogram taken in order, find x and y.

Or

Find the values of y for which the distance between the points P(2, -3) and Q(10, y) is 10 units.

6

16. If $\tan(A + B) = \sqrt{3}$ and $\tan(A - B) = \frac{1}{\sqrt{3}}$; $0^\circ < A + B \leq 90^\circ$; $A > B$, find A and B.

Or

Prove that :

$$\frac{\tan \theta}{1 - \cot \theta} + \frac{\cot \theta}{1 - \tan \theta} = 1 + \sec \theta \operatorname{cosec} \theta$$

6

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17. A tree breaks due to storm and the broken part bends so that the top of the tree touches the ground making an angle 30° with it. The distance between the foot of the tree to the point where the top touches the ground is 8 m. Find the height of the tree.

Or

The angles of depression of the top and the bottom of an 8 m tall building from the top of a multistoreyed building are 30° and 45° , respectively. Find the height of the multistoreyed building and the distance between the two buildings. <https://www.jkboseonline.com> 7

- 18) Construct a triangle with sides 5 cm, 6 cm and 7 cm and then another triangle whose sides are $\frac{7}{5}$ of the corresponding sides of the first triangle.

Or

Draw a circle of radius 6 cm. From a point 10 cm away from its centre, construct the pair of tangents to the circle and measure their lengths. 7

- 19) 2 cubes each of volume 64 cm^3 are joined end-to-end. Find the surface area of the resulting cuboid. 7

Or

Metallic spheres of radii 6 cm, 8 cm and 10 cm, respectively, are melted to form a single solid sphere. Find the radius of the resulting sphere. 7

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20. Consider the following distribution of daily wages of 50 workers of a factory :

Daily Wages (in ₹)	Number of Workers
500—520	12
520—540	14
540—560	8
560—580	6
580—600	10

Find the mean daily wages of the workers of the factory by using an appropriate method.

Or

If the Median of the distribution given below is 28.5, find the values of x and y :

Class Interval	Frequency
0—10	5
10—20	x
20—30	20
30—40	15
40—50	y
50—60	5
Total	60

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MATHEMATICS

(New/Old/Old II Course)

Time : 3 Hours]

[Maximum Marks : 100

NOTE :— The questions in the question paper are based on revised/pre-revised and old course syllabus marked as “New Course”, “Old Course” and “Old II Course” respectively and candidates are advised to appear in the relevant course meant for them. Candidates who may attempt the questions partly from “New Course”, partly from “Old Course” and partly from “Old II Course” will not be awarded. Candidates are also advised to record “New Course” or “Old Course” or “Old II Course” as the case may be, on the front page of the answer-book.

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(Old II Course)

1. Choose the correct answer :

(i) Probability of an event that is certain to happen is :

(A) 0

(B) 1

(C) 2

(D) None of these

1

(ii) Roots of the equation $x^2 - 7x = 0$ will be :

(A) 7

(B) 0, -7

(C) 0, 7

(D) None of these

1

(iii) In ΔABC , $AB = 6\sqrt{3}$ cm, $AC = 12$ cm and $BC = 6$ cm. Then angle B is :(A) 120° (B) 60° (C) 90° (D) 45°

1

(iv) Volume of hemisphere is :

(A) $\frac{2}{3}\pi r^3$ (B) $\frac{1}{3}\pi r^3$ (C) $\frac{4}{3}\pi r^3$

(D) None of these

1

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(v) The common point of a tangent to a circle and the circle is called :

- (A) Secant (B) Chord
(C) Point of contact (D) None of these

(vi) Draw an angle of 60° with the help of a compass and ruler. 1

2. If $\sin \theta = \frac{4}{3}$, find $\cos \theta$ and $\tan \theta$. 2

3. Draw the Graph of the linear equation :

$$4x + 6y = 18$$

4. Give two different examples of pair of non-similar figures. 2

5. Prove that the perpendicular at the point of contact to the tangent to a circle passes through the circle. 4

6. Find the quadratic polynomial, the sum and product of whose zeros are 1 and 1 respectively. 4

7. Check whether -150 is a term of the A.P. 11, 8, 5, 2, 4

8. Show that $3\sqrt{2}$ is irrational. 4

9. Solve the following equations by substitution method :

$$x + y = 14$$

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B-3-B



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10. A bag contains 3 red balls and 5 black balls. A ball is drawn at random from the bag. What is the probability that the ball drawn is :
- (i) red
 - (ii) not red ?

4

11. Find the roots of the quadratic equation $2x^2 - 7x + 3 = 0$ by the method of completing the square.

Or

The sum of the reciprocals of Rehman's ages (in years) 3 years ago and 5 years from now is $\frac{1}{3}$. Find his present age.

6

12. The altitude of a right triangle is 7 cm less than its base. If the hypotenuse is 13 cm, find the other two sides.

Or

Is it possible to design a rectangular mango grove whose length is twice its breadth and the area is 800 m^2 ? If so, find its length and breadth.

6

13. ABCD is a trapezium in which $AB \parallel DC$ and its diagonals intersect each other at the point O. Show that :

$$\frac{AO}{CO} = \frac{BO}{DO}$$

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Xth BAJK22—8003-E

B-3-B

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Or

If a line intersects sides AB and AC of a $\triangle ABC$ at D and E respectively and is parallel to BC, prove that :

$$\frac{AD}{AB} = \frac{AE}{AC}$$

14. In a right triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides. Prove it.

Or

In an equilateral triangle ABC, D is the point on side BC such that

$$BD = \frac{1}{3} BC. \text{ Prove that :}$$

$$9AD^2 = 7AB^2$$

15. If the points A(6, 1), B(8, 2), C(9, 4) and D(P, 3) are the vertices of a parallelogram, taken in order, find the value of P.

Or

Find the area of the quadrilateral whose vertices, taken in order, are (-4, -2), (-3, -5), (3, -2) and (2, 3).

16. Prove that :

$$\frac{\cos A}{1 + \sin A} + \frac{1 + \sin A}{\cos A} = 2 \sec A$$

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B-3-B

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Or

Prove that :

$$\frac{\cot A - \cos A}{\cot A + \cos A} = \frac{\operatorname{cosec} A - 1}{\operatorname{cosec} A + 1} \quad 6$$

17. The angle of elevation of the top of a tower from a point on the ground, which is 30 m away from the foot of the tower, is 30° . Find the height of the tower.

Or

If A, B and C are interior angles of a triangle ABC, then show that :

$$\sin\left(\frac{B+C}{2}\right) = \cos\frac{A}{2} \quad 7$$

18. Construct a triangle of sides 4 cm, 5 cm and 6 cm and then a triangle similar to it whose sides are $\frac{2}{3}$ of the corresponding sides of the first triangle. <https://www.jkboseonline.com>

Or

Draw a circle of radius 6 cm. From a point 10 cm away from its centre,

Construct the pair of tangents to the circle and measure their lengths. 7

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B-3-B

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19. Prove that the parallelogram circumscribing a circle is a rhombus.

Or

Two tangents TP and TQ are drawn to a circle with centre O from an external point T. Prove that :

$$\angle PTQ = 2 \angle OPQ$$

7

20. A toy is in the form of a cone of radius 3.5 cm mounted on a hemisphere of same radius. The total height of the toy is 15.5 cm. Find the total surface area of the toy.

Or

A 20 m deep well with diameter 7 m is dug and the earth from digging is evenly spread out to form a platform 22 m by 14 m. Find the height of the platform.

7

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B-3-B

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H-3-C

Roll No.

Total No. of Questions : 40+20+20] [Total No. of Printed Pages : 24

XAPBIKD22
6803-C
MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 80

NOTE :— The questions in the question paper are based on revised/pre-revised and old course syllabus marked as “New Course”, “Old Course” and “Old II Course” respectively and candidates are advised to appear in the relevant course meant for them. Candidates who may attempt the questions partly from “New Course”, partly from “Old Course” and partly from “Old II Course” will not be awarded. Candidates are also advised to record “New Course” or “Old Course” or “Old II Course” as the case may be, on the front page of the answer-book.

Note :— Q. Nos. 1 to 10 are MCQs of 1 mark each. Select the correct option.

1. L.C.M. of 12, 32 and 36 is :

(A) 300

(B) 350

(C) 400

(D) None of these

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H-3-C



Turn Over

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2. The mid-point of the line segment joining the points A(4, 2) and B(6, 8) is :
- (A) (5, 5) (B) (5, 4)
(C) (1, 3) (D) None of these
3. If the product of the roots of equation $Px^2 + 3x - 8 = 0$ is -4 , then :
- (A) $P = -2$ (B) $P = 8$
(C) $P = 2$ (D) None of these
4. Probability can take values from :
- (A) $-\infty$ to $+\infty$ (B) $-\infty$ to $+1$
(C) 0 to $+1$ (D) -1 to $+1$
5. A quadratic polynomial whose zeroes are -4 and -5 is :
- (A) $x^2 - 9x + 20$ (B) $x^2 + 9x + 20$
(C) $x^2 - 9x - 20$ (D) $x^2 + 9x - 20$
6. The mean of the first five prime numbers is :
- (A) 5.0 (B) 4.5
(C) 5.6 (D) 6.5
7. The value of $\frac{2\tan 30^\circ}{1-\tan^2 30^\circ}$ is :
- (A) $\cos 60^\circ$ (B) $\sin 60^\circ$
(C) $\tan 60^\circ$ (D) $\sin 30^\circ$
8. 30th term of the A.P. : 10, 7, 4, is :
- (A) 97 (B) 77
(C) -77 (D) -87

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H-3-C



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9. The number of tangents that can be drawn from a point lying on the circle is :

- (A) 0 (B) 1
(C) 2 (D) Infinite

10. Area of a circle with radius 5 cm is :

- (A) 60 sq. cm (B) 78.5 sq. cm
(C) 10.5 sq. cm (D) None of these

Note :- Q. Nos. 11 to 15, carry 1 mark each.

11. A is a proven statement used for proving another statement.

12. The sum of the first 100 positive integers is

Or

11th term of the A.P. $-3, -\frac{1}{2}, 2, \dots$ is

13. The value of $\sin A$ or $\cos A$ never exceeds

14. The roots of the equation $(x + 2)^2 - 9 = 0$ is :

- (A) 1, -5 (B) 1, 5
(C) 1, 3 (D) None of these

15. The equations $2x + 3y = 9$ and $4x + 6y = 18$ have infinitely many solutions. (True/False)

Note :- Q. Nos. 16 to 20 are short answer type questions of 1 mark each.

16. State fundamental theorem of arithmetic.

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H-3-C

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17. Define Sure Event.
18. What is the formula for finding the area of a ΔABC with vertices as $A(x_1, y_1)$, $B(x_2, y_2)$ and $C(x_3, y_3)$?

Or

What is the distance between the pair of points (2, 3) and (4, 1) ?

19. State the converse of basic proportionality theorem.
20. Write all the trigonometric ratios of 90° .

Section-B

Note :— Q. Nos. 21 to 26 carry 2 marks each.

21. A cone of height 24 cm and radius of base 6 cm is made up of modelling clay. A child reshapes it in the form of a sphere. Find the radius of the sphere. <https://www.jkbboseonline.com>

Or

The radii of the ends of a frustum of a cone 45 cm high are 28 cm and 7 cm. Find its volume.

22. Use Euclid's division algorithm to find the H.C.F. of 867 and 255.
23. The difference between two numbers is 26 and one number is three times the other. Find them.
24. If $\sec 4A = \operatorname{cosec} (A - 20^\circ)$ where $4A$ is an acute angle, find the value of A .

Or

Evaluate :

$$\frac{\sin^2 63^\circ + \sin^2 27^\circ}{\cos^2 17^\circ + \cos^2 73^\circ}$$

25. A die is thrown once. Find the probability of getting a number greater than 2.

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H-3-C



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26. The marks obtained by 30 students of Class X of a certain school in a Mathematics paper consisting of 100 marks are presented in the table below. Find the mean of the marks obtained by the students :

Mark Obtained (x_j)	No. of Students (f_j)
10	1
20	1
36	3
40	4
50	3
56	2
60	4
70	4
72	1
80	1
88	2
92	3
95	1

Section-C

Note :— Q. Nos. 27 to 34 carry 3 marks each.

- 27 Find the zeroes of the quadratic polynomial $x^2 - 3$ and verify the relationship between the zeroes and the co-efficients.

Or

Divide the polynomial $x^4 - 3x^2 + 4x + 5$ by $x^2 + 1 - x$ and find the quotient and the remainder.

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H-3-C



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28. Solve the pair of linear equations by using cross multiplication method :

$$3x - 9y = 2, \quad -3y + x = 3$$

29. Find the roots of the quadratic equation $3x^2 - 2\sqrt{6}x + 2 = 0$ by factorization method.

30. Check whether 301 is a term of the list of numbers 5, 11, 17, 23,

Or

How many terms of the A.P : 24, 21, 18 must be taken so that their sum is 78 ?

31. Prove that the tangents drawn at the ends of a diameter of a circle are parallel.

Or

Prove that the parallelogram circumscribing a circle is a rhombus.

32. Prove that :

$$(\operatorname{cosec} \theta - \cot \theta)^2 = \frac{1 - \cos \theta}{1 + \cos \theta}$$

33. Find the area of a sector of a circle with radius 6 cm, if angle of the sector is 60° .

34. A toy is in the form of a cone of radius 3.5 cm mounted on a hemisphere of same radius. The total height of the toy is 15.5 cm. Find the total surface area of the toy.

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Section-D

Note :- Q. Nos. 35 to 40 carry 4 marks each.

35. Find the roots of the quadratic equation $2x^2 - 5x + 3 = 0$ by the method of completing the square.

Or

Find two consecutive odd positive integers, the sum of whose squares is 290.

36. Draw a circle of radius 6 cm. From a point 10 cm away from its centre, construct the pair of tangents to the circle and measure their lengths (No steps of construction required).

37. In what ratio does the point $(-4, 6)$ divides the line segment joining the points $A(-6, 10)$ and $B(3, -8)$.

Or

Find the co-ordinates of the point of trisection of the line segment joining the points $P(2, -2)$ and $Q(-7, 4)$.

38. An observer 1.5 m tall is 28.5 m away from a chimney. The angle of elevation of the top of the chimney from her eyes is 45° . What is the height of the chimney.

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H-3-C



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39. Prove that in a right triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides.

Or

Prove that ratio of the areas of two similar triangles is equal to the square of the ratio of their corresponding sides.

40. The distribution below gives the weights of 30 students of a class. Find the median weight of the students :

Weight (in kg)	Number of Students
40—45	2
45—50	3
50—55	8
55—60	6
60—65	6
65—70	3
70—75	2

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B-3-Z

Roll No. _____

Total No. of Questions : 40]

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10th SZJDAR22

6203-Z

MATHEMATICS

Time : 2.30 Hours]

[Maximum Marks : 80

General Instructions :-

- (i) This question paper comprises four Sections-A, B, C and D. This question paper carries 40 questions. All questions are compulsory.
- (ii) Section-A (Q. No. 1 to 20) comprises of twenty questions of 1 mark each.
- (iii) Section-B (Q. No. 21 to 26) comprises of six questions of 2 marks each.
- (iv) Section-C (Q. No. 27 to 34) comprises of eight questions of 3 marks each.

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B-3-Z

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(v) Section-D (Q. No. 35 to 40) comprises of six questions of 4 mark each.

Section-A

1 each

Question No. 1 to 10 are MCQs of 1 mark each. Select the correct option :

1. The common difference of an A.P. $\frac{5}{2}, 3, \frac{7}{2}, \dots$ is :

(A) 2

(B) $-\frac{1}{2}$

(C) $\frac{1}{2}$

(D) None of these

2. 5 is :

(A) An even number

(B) A prime number

(C) A composite number

(D) None of these

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B-3-Z

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3. $2 - x^3$ is :

(A) A linear polynomial

(B) A quadratic polynomial

(C) A cubic polynomial

(D) None of these

4. Sum of the roots of the quadratic equation $ax^2 + bx + c = 0$,

$a \neq 0$ is :

(A) $\frac{b}{a}$

(B) $-\frac{b}{a}$

(C) $\frac{c}{a}$

(D) None of these

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5. A line which touches a circle at one point is called :

- (A) Tangent
- (B) Secant
- (C) Chord
- (D) None of these

6. Area of the sector is given by :

(A) $\frac{\theta}{180} \times \pi r^2$

(B) $\frac{\theta}{360} \times \pi r^2$

(C) $\frac{360}{\theta} \times \pi r^2$

(D) None of these

7. The distance of the point A(x, y) from the origin O(0, 0) is :

(A) $\sqrt{x^2 - y^2}$

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(B) $\sqrt{x^2 + y^2}$

(C) $\sqrt{x+y}$

(D) None of these

8. The probability of getting a number less than 7 in a single throw of a die is :

(A) 1

(B) 0

(C) $\frac{6}{7}$

(D) None of these

9. The value of $\frac{\tan 65^\circ}{\cot 25^\circ}$ is :

(A) 1

(B) -1

(C) 0

(D) None of these

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The solution of the pair of linear equations $x + 2y = 3$ and $x + y = 3$

is :

(A) $x = 0, y = 3$

(B) $x = -3, y = 0$

(C) $x = 3, y = 0$

(D) None of these

In Q. No. 11 to 15, fill in the blanks. Each question is of 1 mark

each.

11.. H.C.F. of 42 and 63 = (42, 21)

12. If angle between two radii of a circle is 130° , then angle between the tangents at the ends of the radii is 50° . (True/False)

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B-3-Z

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13. The next term of the A.P. $\sqrt{27}, \sqrt{48}, \sqrt{75}, \dots$ is $\sqrt{106}$.

(True/False)

Or

The sum of first 3 terms of the A.P. whose n th term is given by

$$a_n = 2n + 1 \text{ is } 15.$$

(True/False)

14. $\sin^2 \theta + \cos^2 \theta = 1$ for all values of θ .

(Yes/No)

15. Any two are similar.

(Triangles/Rectangles)

16. Define y-coordinate of a points.

Or

Write a formula for finding the area of a ΔABC with coordinates of the vertices as $A(x_1, y_1), B(x_2, y_2), C(x_3, y_3)$.

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B-3-Z

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17. What is the angle of elevation ?
18. State SSS similarity criterion for two triangles.
19. If $P(E) = 0.05$, what is the probability of 'not E' ?
20. If $r = 2$ cm, then find curved surface area of hemisphere in terms of π .

Section-B

2 each

Q. No. 21 to 26 carry 2 marks each.

21. Express 156 as a product of its prime factors.
22. A solid in the shape of a cone standing on a hemisphere with both their radii being equal to 1 cm and the height of the cone is equal to its radius. Find the volume of the solid in terms of π .

10th SZJDAR22-6203-
B-3-Z



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23. Solve the pair of equations by the substitution method :

$$x + y = 14$$

$$x - y = 4$$

24. If $\sin A = \frac{3}{4}$, calculate $\cos A$ and $\tan A$.

Or

Find the value of :

$$\frac{1 - \tan^2 45^\circ}{1 + \tan^2 45^\circ}$$

25. A die is thrown once. Find the probability of getting :

(i) a prime number

(ii) an odd number

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B-3-Z

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26. The following table gives the literacy rate (in percentage) of 35 cities. Find the mean literacy rate :

Literacy rate (in %)	45-55	55-65	65-75	75-85	85-95
Number of Cities	3	10	11	8	3

Section-C

3 each

Q. No. 27 to 34 carry 3 marks each.

27. Find the zeroes of the quadratic polynomial $3x^2 - x - 4$ and verify the relationship between the zeroes and the coefficients.

Or

On dividing $x^3 - 3x^2 + x + 2$ by a polynomial $g(x)$, the quotient and remainder were $x - 2$ and $-2x + 4$ respectively. Find $g(x)$.

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B-3-Z

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28. Five years hence, the age of Jacob will be three times that of his son. Five years ago, Jacob's age was seven times that of his son.

What are their present ages ?

29. Find the roots of the quadratic equation $2x^2 - 7x + 3 = 0$ by applying the quadratic formula.

30. How many multiples of 4 lie between 10 and 250 ?

Or

Find the sum of first 51 terms of an A.P. whose second and third terms are 14 and 18 respectively.

31. Prove the identity :

$$\frac{1 + \sec A}{\sec A} = \frac{\sin^2 A}{1 - \cos A}$$

03 SZJDAR22-6203-Z

3-3-Z

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32. The length of a tangent from a point A at distance 5 cm from the centre of the circle is 4 cm. Find the radius of the circle.

Or

Two tangents TP and TQ are drawn to a circle with centre O from an external point T. Prove that :

$$\angle PTQ = 2 \angle OPQ$$

33. The radii of two circles are 8 cm and 6 cm respectively. Find the radius of the circle having area equal to the sum of the areas of the two circles.
34. A 20 m deep well with diameter 7 m is dug and the earth from digging is evenly spread out to form a platform 22 m by 14 m. Find the height of the platform.

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B-3-Z

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Section-D

4 each

Q. No. 35 to 40 carry 4 marks each.

35. Find two consecutive positive integers, sum of whose squares is 365.

Or

Find the value of 'K' for which the quadratic equation $Kx(x - 2)$

$+ 6 = 0$ has two equal roots. <https://www.jkboseonline.com>

36. The angle of elevation of the top of a tower from a point on the ground, which is 30 m away from the foot of the tower, is 30° .

Find the height of the tower.

37. If $(1, 2)$, $(4, y)$, $(x, 6)$ and $(3, 5)$ are the vertices of a parallelogram

taken in order, find x and y .

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-3-Z

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Or

Find the area of the triangle whose vertices are $(-5, -1)$, $(3, -5)$ and $(5, 2)$.

38. In a right triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides. Prove it.

Or

Diagonals AC and BD of a trapezium ABCD with $AB \parallel DC$ intersect each other at the point O. Using a similarity criterion for two triangles, show that :

$$\frac{OA}{OC} = \frac{OB}{OD}$$

39. Draw a right triangle in which the sides (other than hypotenuse) are of lengths 4 cm and 3 cm. Then construct another triangle whose sides are $\frac{5}{3}$ times the corresponding sides of the given triangle.

10th SZJDAR22-6203-2
B-3-Z

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40. The distribution below gives the weight of 30 students of a class.
Find the median weight of the students :

Weight (in kg)	No. of Students
40-45	2
45-50	3
50-55	8
55-60	6
60-65	6
65-70	3
70-75	2

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B-3-X

Roll No.....

Total No. of Questions : 40]

[Total No. of Printed Pages : 15

10th SZJDAR22

6203-X

MATHEMATICS

Time : 2.30 Hours]

[Maximum Marks : 80

General Instructions :-

- (i) This question paper comprises four Sections-A, B, C and D. This question paper carries 40 questions. All questions are compulsory.
- (ii) Section-A (Q. No. 1 to 20) comprises of *twenty* questions of 1 mark each.
- (iii) Section-B (Q. No. 21 to 26) comprises of *six* questions of 2 marks each.
- (iv) Section-C (Q. No. 27 to 34) comprises of *eight* questions of 3 marks each.

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B-3-X

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(v) Section-D (Q. No. 35 to 40) comprises of six questions of 4 marks each.

Section-A

1 each

Question No. 1 to 10 are MCQs of 1 mark each. Select the correct option :

1. The common difference of an A.P. $-5, -1, 3, 7, \dots$ is :

(A) 4

(B) -4

(C) 2

(D) None of these

2. $41\sqrt{2}$ is :

(A) Rational

(B) Irrational

(C) Even

(D) None of these

10th SZJDAR22-6203-X

B-3-X

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3. The zero of a linear polynomial $ax + b$ is :

(A) $-\frac{b}{a}$

(B) $-\frac{a}{b}$

(C) $\frac{b}{a}$

(D) None of these

4. Sum of the roots of the quadratic equation $3x^2 - 5x + 2 = 0$ is :

(A) $-\frac{5}{3}$

(B) $\frac{3}{5}$

(C) $\frac{5}{3}$

(D) None of these

10th SZJDAR22-6203-X
B-3-X

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5. A line intersecting a circle in two points is called a :

- (A) Tangent
- (B) Chord
- (C) Secant
- (D) None of these

6. Length of an arc of a sector is given by :

- (A) $\frac{\theta}{360} \times 2\pi r$
- (B) $\frac{\theta}{360} \times \pi r$
- (C) $\frac{\theta}{180} \times 2\pi r$
- (D) None of these

7. The midpoint of the line segment joining the points (2, 3) and (-4, 7) is :

- (A) (-1, 5)

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(B) (3, 5)

(C) (5, -1)

(D) None of these

8. The probability of getting a number less than 4 in a single throw of a die is :

(A) $\frac{2}{3}$

(B) $\frac{3}{4}$

(C) $\frac{1}{2}$

(D) None of these

9. The value of $\cos 72^\circ - \sin 18^\circ$ is :

(A) -1

(B) 0

(C) 1

(D) None of these

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10. The graph of the equation $x = 2$ is :

(A) A line parallel to x -axis

(B) A line parallel to y -axis

(C) y -axis

(D) None of these

In Q. No. 11 to 15, fill in the blanks. Each question is of 1 mark each.

11. LCM of 6 and 20 is (20, 60)

12. If angle between two tangents drawn from a point P to a circle of radius a and centre O is 90° , then $OP = a\sqrt{2}$. (True/False)

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13. The 6th term of the A.P. 5, 8, 11, 14, is 21.

(True/False)

Or

The sum of all natural numbers from 1 to 100 is 5050.

(True/False)

14. If ΔABC is right angled at C, then the value of $\cos(A + B)$ is 1. (Yes/No)

15. Any two triangles are similar. (Isosceles/Equilateral)

Q. No. 16 to 20 are very short answer type questions of 1 mark each.

16. Define Collinear points.

Or

Write a formula for finding the distance between two points

$A(x_1, y_1)$ and $B(x_2, y_2)$.

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17. What is the line of sight ?

18. State AA similarity criterion for two triangles.

19. If $P(E) = 1$, find $P(\text{not } E)$. \circ

20. Given $r = 7$ cm, find the circumference of circle. (Take, $\pi = \frac{22}{7}$)

Section-B

2 each

Q. No. 21 to 26 carry 2 marks each.

21. Find the H.C.F. of 26 and 91.

22. 2 cubes each of volume 64 cm^3 are joined end to end. Find the surface area of the resulting cuboid.

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23. Solve the pair of equations by the substitution method :

$$x + y = 14$$

$$x - y = 4$$

24. If $\sin A = \frac{3}{4}$, calculate $\cos A$ and $\tan A$.

Or

Find the value of :

$$\frac{1 - \tan^2 45^\circ}{1 + \tan^2 45^\circ}$$

25. A die is thrown once. Find the probability of getting :

(i) a prime number

(ii) an odd number

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26. The following table gives the literacy rate (in percentage) of 35 cities. Find the mean literacy rate :

Literacy rate (in %)	45-55	55-65	65-75	75-85	85-95
Number of Cities	3	10	11	8	3

Section-C

3 each

Q. No. 27 to 34 carry 3 marks each.

27. Find the zeroes of the quadratic polynomial $3x^2 - x - 4$ and verify the relationship between the zeroes and the coefficients.

Or

On dividing $x^3 - 3x^2 + x + 2$ by a polynomial $g(x)$, the quotient and remainder were $x - 2$ and $-2x + 4$ respectively. Find $g(x)$.

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28. Five years hence, the age of Jacob will be three times that of his son. Five years ago, Jacob's age was seven times that of his son.

What are their present ages ?

29. Find the roots of the quadratic equation $2x^2 - 7x + 3 = 0$ by applying the quadratic formula.

30. How many multiples of 4 lie between 10 and 250 ?

Find the sum of first 51 terms of an A.P. whose second and third terms are 14 and 18 respectively.

31. Prove the identity :

$$\frac{1 + \sec A}{\sec A} = \frac{\sin^2 A}{1 - \cos A}$$

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32. The length of a tangent from a point A at distance 5 cm from the centre of the circle is 4 cm. Find the radius of the circle.

Or

Two tangents TP and TQ are drawn to a circle with centre O from an external point T. Prove that :

$$\angle PTQ = 2 \angle OPQ$$

33. The radii of two circles are 8 cm and 6 cm respectively. Find the radius of the circle having area equal to the sum of the areas of the two circles. <https://www.jkbboseonline.com>

34. A 20 m deep well with diameter 7 m is dug and the earth from digging is evenly spread out to form a platform 22 m by 14 m.

Find the height of the platform.

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Section-D

4 each

Q. No. 35 to 40 carry 4 marks each.

35. Find two consecutive positive integers, sum of whose squares is 365.

Or

Find the value of 'K' for which the quadratic equation $Kx(x - 2) + 6 = 0$ has two equal roots.

36. The angle of elevation of the top of a tower from a point on the ground, which is 30 m away from the foot of the tower, is 30° .

Find the height of the tower.

37. If (1, 2), (4, y), (x, 6) and (3, 5) are the vertices of a parallelogram taken in order, find x and y.

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Or

Find the area of the triangle whose vertices are $(-5, -1)$, $(3, -5)$ and $(5, 2)$.

38. In a right triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides. Prove it.

Or

Diagonals AC and BD of a trapezium ABCD with $AB \parallel DC$ intersect each other at the point O. Using a similarity criterion for two triangles, show that

$$\frac{OA}{OC} = \frac{OB}{OD}$$

39. Draw a right triangle in which the sides (other than hypotenuse) are of lengths 4 cm and 3 cm. Then construct another triangle whose sides are $\frac{5}{3}$ times the corresponding sides of the given triangle.

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40. The distribution below gives the weight of 30 students of a class.

Find the median weight of the students :

Weight (in kg)	No. of Students
40-45	2
45-50	3
50-55	8
55-60	6
60-65	6
65-70	3
70-75	2

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Time : 3 Hours]

[Maximum Marks : 80

حصہ ” الف “

۱۔ درج ذیل عبارت کو غور سے پڑھنے کے بعد اس کے آخر پر دی گئی خالی جگہوں

۵×۱=۵

کو اسی سے چن کر مناسب الفاظ سے پُر کیجئے۔

ادنیٰ ایک خوش مزاج اور ہنس مکھ شخص تھا۔ غریبوں کا تو وہ بہت

ہی عزیز دوست تھا۔ اس لئے لوگ اس سے بڑی محبت کرتے تھے۔

بعض لوگ اس سے حسد کرتے تھے اور اس کو چڑھانے اور نیچا دکھانے

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(2)

کی تاک میں لگے رہتے تھے۔ لیکن اونتی اپنی سوجھ بوجھ سے الٹا انھیں کو قائل کر دیتا تھا۔

(i) اونتی ایک خوش مزاج اور..... شخص تھا۔

(ii) غریبوں کا وہ بہت ہی..... تھا۔

(iii) بعض لوگ اونتی سے..... کرتے تھے۔

(iv) اونتی اپنی..... سے انھیں قائل کرتے تھے۔

(v) کچھ لوگ انھیں چڑھانے اور..... دکھانے کے لئے تاک

میں رہتے تھے۔

۲۔ درج ذیل شعری جز کو غور سے پڑھئے اور آخر پر پوچھے گئے سوالات کے

۵×۱=۵

جوابات میں سے درست جواب چن لیجئے۔

کیا جانے کس خیال میں گم تھی وہ بے گناہ

نورِ نظر پہ دیدہ حسرت سے کی نگاہ

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(3)

جنش ہوئی لبوں کو بھری ایک سرد آہ

لی گوشہ ہائے چشم سے اشکوں نے رُخ کی راہ

چہرے کا رنگ حالت دل کھولنے لگا

ہر سوئے تن زباں کی طرح بولنے لگا

(i) خیالوں میں کون گم تھا؟

(الف) باپ۔

(ب) ماں

(ج) بھائی۔

(د) بہن۔

(ii) اشکوں نے کس کی راہ لی؟

(الف) ناک۔

(ب) رُخ۔

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(4)

(ج) پاؤں۔

(د) ہاتھ۔

(iii) کس کو حسرت کی نگاہ سے دیکھا گیا؟

(الف) چاند۔

(ب) سورج۔

(ج) نورِ نظر۔

(د) نورِ چشم۔

(iv) چہرے کا رنگ کیا کھولنے لگا؟

(الف) حالتِ جان۔

(ب) حالتِ دل۔

(ج) حسرت۔

(د) حالتِ حاضر۔

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(v) اس نظم کا شاعر کون ہے؟

(الف) اقبال۔

(ب) چکبست۔

(ج) حالی۔

(د) نظیر اکبر آبادی۔

۳۔ دی گئی عبارت کو غور سے پڑھنے کے بعد آخر پر دیئے گئے سوالات کے مختصر

۵×۱=۵

جواب لکھئے۔

ایک بڑھیا جنگل بیابان میں جہاں نہ آدم نہ آدم زاد، ایک
بڑے درخت کے نیچے بیٹھی تھی۔ خدا کا کرنا کیا ہوا کہ ان ہی دنوں
جاڑا، گرمی اور برسات میں جھگڑا ہوا۔ جاڑا کہتا ہے میں اچھا، گرمی
کہتی ہے میں اچھی، برسات کہتی میں اچھی۔ آخر یہ صلاح ہوئی کہ چلو
کسی آدم زاد سے پوچھیں۔ ان کا جو ادھر گزرا ہوا تینوں نے کہا لو بھئی

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(6)

وہ سامنے ایک بڑھیا بیٹھی ہے۔ چلو اس سے پوچھیں۔ سب سے پہلے
میاں جاڑے آئے گوری گوری رنگت، سفید بسی داڑھی، موٹا ساروئی
کا دنگلہ پہنے خوب اوڑھے لپٹے آئے۔ ان کا آنا تھا کہ بڑی بی کو تھر تھری
چھوٹ گئی۔

(i) بڑھیا درخت کے نیچے کہاں بیٹھی تھی؟

(ii) برسات نے کیا کہا؟

(iii) سب سے پہلے کون میاں آئے؟

(iv) بڑی بی کو تھر تھری کیوں چھوٹ گئی؟

(v) آخر پر کس سے پوچھنے کی صلاح ہوئی؟

حصہ ”ب“

(الف) درج ذیل الفاظ کو جملوں میں اس طرح استعمال کیجئے کہ ان کی

تذکیر و تانیث واضح ہو جائے۔

(i) تنخواہ

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(ii) کرایہ۔

(iii) دوا۔

(ب) درج ذیل الفاظ کو جملوں میں اس طرح استعمال کیجئے کہ ان کا

واحد یا جمع ہونا واضح ہو جائے۔

(i) دکان۔

(ii) جراثیم۔

۵۔ دیئے گئے حروف میں سے صرف دو کی تعریف کیجئے اور مثالیں بھی دیجئے۔

(i) حروف جار۔

(ii) حروف اضافت۔

(iii) حروف عطف۔

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۶۔ ہدایات کے مطابق جواب لکھئے۔

(الف) "عابد نے راشد کو مارا"

اس جملے میں لفظ "عابد" کیا ہے؟

(i) صفت۔

(ii) فاعل۔

(iii) مفعول۔

(iv) نکرہ۔

(ج) رفعت ذہین لڑکی ہے۔

اس جملے میں لفظ "ذہین" کیا ہے؟

(i) فاعل۔

(ii) صفت۔

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(9)

(iii) مفعول۔

(iv) فعل۔

(ج) ندیم کتاب پڑھتا ہے۔

اس جملے میں لفظ ”کتاب“ کیا ہے؟

(i) فاعل۔

(ii) صفت۔

(iii) مفعول۔

(iv) فعل۔

(د) ”دھوبی کپڑے دھوتا ہے۔“

اس جملے میں لفظ ”دھوبی“ کیا ہے؟

(i) صفت۔

(ii) فاعل۔

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(iii) مفعول۔

(iv) ضمیر۔

(و) ”یہ عبارت پرانی ہے“

اس جملے میں لفظ ”پرانی“ کیا ہے؟

(i) فاعل۔

(ii) صفت۔

(iii) مفعول۔

(iv) فعل۔

۲۔ درج ذیل محاورات میں سے صرف دو کو جملوں میں استعمال کیجئے۔

(i) آفت کا پرکالا۔

(ii) آگ بگولہ ہونا۔

(iii) پالا پڑنا۔

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۸۔ کسی ایک جملے کی ترکیب نحوی کیجئے اور جملے کا نام بھی لکھئے۔

(i) بشیر نادان ہے۔

(ii) حامد نے روٹی کھائی۔

حصہ ”ج“

۹۔ درج ذیل اصناف میں سے کسی ایک صنف پر نوٹ لکھئے۔

(i) داستان۔

(ii) ڈراما۔

(iii) قصیدہ۔

(iv) غزل۔

۱۰۔ درج ذیل اسباق میں سے کسی ایک کا خلاصہ لکھئے۔

(i) سیر چوتھے درویش کی۔

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(ii) حالی۔

(iii) عبرت۔

۱۱۔ درج ذیل اشعار میں سے صرف تین اشعار کی تشریح کیجئے اور شاعر کا

$3 \times 2 = 6$

حوالہ بھی دیجئے۔

(i) پڑپڑا جو آپ بزم میں پڑپڑا تھا

معاذ اللہ! بڑا کہ بہت میں بھی دور تھا۔

(ii) نہ گورستانہ نہ ہے قبر، ارا

منہ نامیوں کے نشان تھے تھے

(iii) آئے آتی تھی حال دل پانی

اب کسی بات پر نہیں آتی

(iv) نہ تو میں معتدرا نجازے کا

بڑی مشکل سے منوایا گیا ہوں

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(v) ہم نکل سکتے بھی تو کیوں کر حصار ذات سے

صرف دیواریں ہی دیواریں تھیں دروازہ نہ تھا۔

(vi) پرچم امن لئے پھرتے ہیں شہروں شہروں

آستیوں میں چھپائے ہوئے بھنجر کتنے

۵

۱۲۔ صرف دو سوالوں کے جواب لکھئے۔

(i) ملک صادق کون تھا اور شہزادے کے ساتھ ان کا کیا رشتہ تھا؟

(ii) لوگوں کو دھوکہ دینے کے لئے جن کون کون سی چیزیں اپنے پاس رکھتی تھی؟

(iii) پنڈت چندر دھرا اپنے پیشے سے کیوں بیزار تھے؟

(iv) خوشامدی میں کیا کیا عیب ہوتے ہیں؟

۵

۱۳۔ صرف دو سوالوں کے جواب لکھئے۔

(i) اس قصیدے کو شاعر نے "شہر آشوب" کیوں قرار دیا ہے؟

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(ii) مجلسِ آدمی کو کس کس طرح سے ستاتی ہے؟

(iii) شاعر کو ہر بات میں کلفت کیوں نظر آتی ہے؟

(iv) وحدت میں کثرت سے کیا مراد ہے؟

۱۳۔ درج ذیل ادباء اور شعراء میں سے کسی ایک کے حالات زندگی تحریر کیجئے۔

(i) میرامن۔

(ii) ڈپٹی نذیر احمد۔

(iii) آتش۔

(iv) شاد عظیم آبادی۔

حصہ "د"

اپنے چھوٹے بھائی کے نام خط لکھئے جس میں اسے پڑھنے کے ساتھ ساتھ کھیل

کو دیکھ لینے کی نصیحت کی گئی ہو۔

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9301-Z

URDU

Time : 3 Hours]

[Maximum Marks : 80

حصہ ” الف “

۱۔ درج ذیل عبارت کو غور سے پڑھنے کے بعد اس کے آخر پر دی گئی خالی جگہوں

۵x۱=۵

کو اسی سے چن کر مناسب الفاظ سے پُر کیجئے۔

انگلستان کو چھوڑ کر یورپ کے جس ملک میں بھی ہم جائیں زبان

کا مسئلہ پیدا ہو جاتا ہے۔ ہمارے لئے نہیں۔ اس ملک کے لوگوں کے

لئے۔ کیونکہ ہم تو اپنا منشا انگریزی میں بخوبی ادا کر لیتے ہیں۔ یہ لوگ

سمجھ نہیں پاتے۔ یہ سچ ہے کبھی کبھی انگلستان والے بھی ہماری انگریزی

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(2)

سمجھنے سے قاصر رہتے ہیں لیکن ایسا فقط کبھی کبھی ہوتا ہے۔ لندن میں ہم

نے جب کبھی کنگھا خریدنا چاہا، خرید لیا۔ ہمبرگ میں نہیں خرید سکے۔

(i) اگر یورپ کے کسی بھی ملک میں جائیں تو..... کا مسئلہ پیدا

ہو جاتا ہے۔

(ii) ہم تو اپنا منشا انگریزی میں..... ادا کر سکتے ہیں۔

(iii) انگلستان والے بھی کبھی کبھی ہماری انگریزی سمجھنے سے.....

رہتے ہیں۔

(iv) ہمبرگ میں..... نہیں خرید سکتے۔

(v) انگلستان میں..... زبان بولی جاتی ہے۔

۲۔ درج ذیل شعری جز کو غور سے پڑھئے اور آخر پر پوچھے گئے سوالات کے

جوابات میں سے درست جواب چن لیجئے۔

۵x۱=۵

رنگین نوا بنایا مرغان بے زباں کو

گل کو زبان دے کر تعلیم خامشی دی

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(3)

نظارہ شفق کی خوبی زوال میں تھی
چمکا کے اس پری کو تھوڑی سی زندگی دی

رنگیں کیا سحر کو بانکی دہن کی صورت

پہنا کے لال جوڑا شبنم کی آری دی

(i) گل کو کیا دے کر تعلیم خامشی دی ہے؟

(الف) ناک۔

(ب) کان۔

(ج) آنکھ۔

(د) زبان۔

(ii) نظارہ شفق کی خوبی کس میں تھی؟

(الف) کمال۔

(ب) زوال۔

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(4)

(ج) ثنات۔

(د) فح۔

(iii) رنن كس كو كفا كفا هف؟

(الف) صبح كو۔

(ب) شام كو۔

(ج) سحر كو۔

(د) رات كو۔

(iv) فف شعرف جز كس نظم سف لفا كفا هف؟

(الف) افك آرزو۔

(ب) ككنو۔

(ج) مفلسف۔

(د) روڈ۔

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(5)

(v) اس نظم کا شاعر کون ہے؟

(الف) غالب۔

(ب) اقبال۔

(ج) حالی۔

(د) امّتش۔

۳۔ دی گئی عبارت کو غور سے پڑھنے کے بعد آخر پر دیئے گئے سوالات کے مختصر

جواب لکھئے۔

۵ x ۱ = ۵

یہ بھنھناتا ہوا ننھا سا پرندہ آپ کو بہت ستاتا ہے۔ رات کی نیند

حرام کر دی ہے۔ ہندو، مسلمان، عیسائی، یہودی سب بالاتفاق اس

سے ناراض ہیں۔ ہر روز اس کے مقابلہ کے لئے مہمیں تیار ہوتی ہیں۔

جنگ کے نقشے بنائے جاتے ہیں، مگر مچھروں کے جزل کے سامنے کسی کی

نہیں چلتی، شکست پر شکست ہوتی چلی جاتی ہے اور مچھروں کا لشکر چلا آتا

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(6)

ہے۔ اتنے بڑے ڈیل ڈول کا انسان ذرا سے بھنگے پر قابو نہیں پاسکتا۔
طرح طرح کے مصالحو بھی بناتا ہے کہ ان کی بو سے چھبر بھاگ
جائیں۔

- (i) کس نے رات کی نیند حرام کر دی ہے؟
- (ii) یہ ننھا سا پرندہ کیا کرتا ہوا آتا ہے؟
- (iii) ہر روز اس کے مقابلہ کے لئے کیا کیا جاتا ہے؟
- (iv) چھبروں کے جزل کے سامنے آدمی کو کیا ملتا ہے؟
- (v) اتنے بڑے ڈیل ڈول کا انسان کس پر قابو نہیں پاسکتا؟

حصہ ”ب“

۴۔ (الف) درج ذیل الفاظ کو جملوں میں اس طرح استعمال کیجئے کہ ان کی

تذکیر و تانیث واضح ہو جائے۔

(i) پھول۔

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(7)

(ii) درست۔

(iii) کرسی۔

(ب) درج ذیل الفاظ کو جملوں میں اس طرح استعمال کیجئے کہ ان کا

۲

واحد یا جمع ہونا واضح ہو جائے۔

(i) قلم۔

(ii) علماء۔

۵۔ دیئے گئے حروف میں سے صرف دو کی تعریف کیجئے اور مثالیں بھی دیجئے۔

(i) حروف جار۔

(ii) حروف اضافت۔

(iii) حروف عطف۔

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(8)

۵ × ۱ = ۵

۶۔ ہدایات کے مطابق جواب لکھئے۔

(الف) ”غیب کتاب پڑھتا ہے“

اس جملے میں لفظ ”کتاب“ کیا ہے؟

(i) فاعل۔

(ii) مفعول۔

(iii) صفت۔

(iv) فعل۔

(ب) ”علی بڑا ہے“

اس جملے میں لفظ ”بڑا“ کیا ہے؟

(i) فاعل۔

(ii) صفت۔

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(9)

(iii) منفعول۔

(iv) نکرہ۔

(ج) ”یہ عمارت نئی ہے“

اس جملے میں لفظ ”نئی“ کیا ہے؟

(i) فاعل۔

(ii) صفت۔

(iii) منفعول۔

(iv) ضمیر۔

(د) ”اشرف دوڑتا ہے“

اس جملے میں لفظ ”اشرف“ کیا ہے؟

(i) صفت۔

(ii) فاعل۔

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(iii) مفعول۔

(iv) فعل۔

(ہ) ”وہ لڑکی ذہین ہے“

اس جملے میں لفظ ”ذہین“ کیا ہے؟

(i) فعل۔

(ii) صفت۔

(iii) مفعول۔

(iv) فاعل۔

۲

۷۔ درج ذیل محاورات میں سے صرف دو کو جملوں میں استعمال کیجئے۔

(i) آفت کا پر کالا۔

(ii) آگ بگولہ ہونا۔

(iii) پالا پڑنا۔

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۸۔ کسی ایک جملے کی ترکیب نحوی کیجئے اور جملے کا نام بھی لکھئے۔

(i) بشیر نادان ہے۔

(ii) حامد نے روٹی کھائی۔

حصہ ”ج“

۵

۹۔ درج ذیل اصناف میں سے کسی ایک صنف پر نوٹ لکھئے۔

(i) داستان۔

(ii) ڈراما۔

(iii) قصیدہ۔

(iv) غزل۔

۵

۱۰۔ درج ذیل اسباق میں سے کسی ایک کا خلاصہ لکھئے۔

(i) سیر چوتھے درویش کی۔

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(ii) جان۔

(iii) مہرت۔

۱۱۔ درج ذیل اشعار میں سے صرف تین اشعار کی تشریح کیجئے اور شاعر کا

حوالہ بھی دیجئے۔

۳×۲=۶

(i) پنپ جو آپ کو تو میں پہنچا خدا تیں

معلوم اب ہوا کہ بہت میں بھی دور تھا۔

(ii) نگور سکندر نہ ہے قبر دارا

مٹے نامیوں کے نشاں کیسے کیسے

(iii) آگے آتی تھی حالِ دل پہ ہنسی

اب کسی بات پر نہیں آتی

(iv) نہ تھا میں معتقد اعجازِ مے کا

- بڑی مشکل سے منوایا گیا ہوں

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(v) ہم نکل سکتے بھی تو کیوں کر حصار ذات سے

صرف دیواریں ہی دیواریں تھیں دروازہ نہ تھا

(vi) پرچم امن لئے پھرتے ہیں شہروں شہروں

آستینوں میں چھپائے ہوئے خنجر کتنے

۵

۱۲۔ صرف دو سوالوں کے جواب لکھئے۔

(i) ملک صادق کون تھا اور شہزادے کے ساتھ ان کا کیا رشتہ تھا؟

(ii) لوگوں کو دھوکہ دینے کے لئے جن کون کون سی چیزیں اپنے پاس رکھتی تھی؟

(iii) پنڈت چندر دھرا اپنے پیشے سے کیوں بیزار تھے؟

(iv) خوشامدی میں کیا کیا عیب ہوتے ہیں؟

۵

۱۳۔ صرف دو سوالوں کے جواب لکھئے۔

(i) اس قصیدے کو شاعر نے ”شہر آشوب“ کیوں قرار دیا ہے؟

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(ii) منس آدی کو کس کس طرح سے ستاتی ہے؟

(iii) شاعر کو ہر بات میں کلفت کیوں نظر آتی ہے؟

(iv) وحدت میں کثرت سے کیا مراد ہے؟

۱۴۔ درج ذیل ادباء اور شعراء میں سے کسی ایک کے حالات زندگی تحریر کیجئے۔

(i) میرامن۔

(ii) ذہنی نذیر احمد۔

(iii) آتش۔

(iv) شاد عظیم آبادی۔

حصہ ”د“

۱۵۔ اپنے چھوٹے بھائی کے نام خط لکھئے جس میں اسے پڑھنے کے ساتھ ساتھ کھیل

کو د میں حصہ لینے کی نصیحت کی گئی ہو۔

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(15)

(یا)

اپنے اسکول کے سربراہ کے نام ڈسچارج سرٹیفکیٹ اجرا کرنے کے لئے درخواست لکھئے۔

۱۶۔ دیئے گئے عنوانات میں سے کسی ایک پر دو سو (۲۰۰) الفاظ پر مشتمل مضمون

۸

لکھئے۔

(i) کھیلوں کی اہمیت۔

(ii) کووڈ-۱۹ (Covid 19) کی تباہ کاریاں۔

(iii) وقت کی پابندی۔

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A-4-X

Roll No.....

Total No. of Questions : 17]

[Total No. of Printed Pages : 8

XARJKUT23

9304-X

SOCIAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Objective Type Questions)

1 each

1. Do as directed :

(i) Napoleonic Code was introduced in the year of :

(A) 1809

(B) 1807

(C) 1805

(D) 1804

(Choose the correct option)

(ii) Which movement was started in 1942 ?

(A) The Khilafat Movement

(B) The Non-Cooperation Movement

(C) The Disobedience Movement

(D) The Quit India Movement (Choose the correct option)

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(iii) In which year the first education policy of state was drafted ?

(A) 1950

(B) 1955

(C) 1960

(D) 1965 ✓

(Choose the correct option)

(iv) _____ was the Literary Journal of Cultural Congress.

(Fill in the blank)

(v) The first industrial exhibition in Jammu and Kashmir was held in the year :

(A) 1949

(B) 1950 ✓

(C) 1951

(D) 1952

(Choose the correct option)

(vi) Banihal tunnel was constructed in 1960. (True/False)

(vii) _____ crop is known as golden fiber. (Fill in the blank)

(viii) Which one of the following is a Rabi crop ?

(A) Rice

(B) Millets

(C) Gram

(D) Cotton

(Choose the correct option)

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(ix) Which one of the following minerals is a fossil fuel ?

- (A) Barium (B) Coal
(C) Zircon (D) Uranium

(Choose the correct option)

(x) . Tata Steel is public sector industry. (True/False)

(xi) is the cheap center of cotton textile.

(Fill in the blank)

(xii) Where was the first fertilizer plant setup ?

- (A) Raniket (B) Raipur
(C) Ahmedabad (D) Kirtpur

(Choose the correct option)

(xiii) Which one of these is better ?

- (A) Democracy
(B) Dictatorship
(C) Both (A) and (B)
(D) None of these

(Choose the correct option)

(xiv) Rule of the people is known as

(Fill in the blank)

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(xv) How many union territories are there in India ?

- (A) 7 (B) 8
(C) 9 (D) 10

(Choose the correct option)

(xvi) The High Court of will function as the High Court for both Jammu-Kashmir and Ladakh. (Fill in the blank)

(xvii) There are major craft clusters in Jammu and Kashmir.

- (A) 178 ✓ (B) 119
(C) 180 (D) 181

(Choose the correct option)

(xviii) What is the full form of SDRF ?

(xix) J & K has great potential of religious

(Fill in the blank)

(xx) In which year devastating earthquake in Muzaffarabad took place ?

- (A) Oct., 2005 ✓ (B) May, 2006
(C) Nov., 2007 (D) January, 2004

(Choose the correct option)

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A-4-X

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Section-B

(Short Answer Type Questions)

3 each

Note :- Answer to these questions should be 40 to 60 words each.

2. Why Indians were outraged by the Rowlatt Act ?
3. Explain the three types of movements or flows within international economic exchange. Find one example of each type of flow which involved India and Indians and write a short account of it.

Or

Why did some industrialists in nineteenth century Europe prefer hand labour over machines ? <https://www.jkboseonline.com>

4. Explain the consequences of Great Depression.

Or

The East India Company appointed gomasthas to supervise weavers in India. Explain.

5. Describe the important features of rice cultivation.
6. Describe the *four* different types of coal found in India.

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7. A few subjects in various lists of Indian Constitution are given here. Group them under the union, state and concurrent lists as provided in the table below :

- (i) Defence
 - (ii) Police
 - (iii) Agriculture
 - (iv) Education
 - (v) Banking
 - (vi) Forests
 - (vii) Communications
 - (viii) Trade
 - (ix) Marriages :
- | |
|-----------------|
| Union list |
| State list |
| Concurrent list |

8. Explain the challenges faced by the political parties.

9. Mention different aspects of life in which woman are discriminated or disadvantaged in India.

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A-4-X

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10. Write in detail the role of search and rescue team during a disaster.
11. Write a brief note on micro, small and medium scale industries in employment generation in J & K.

Section-C

(Long Answer Type Questions)

5 each

Note :- Answer to these questions should be 100 to 130 words each.

12. Briefly trace the process of German unification.
13. Name the soils found in India. Discuss any *one* in detail.
14. What are the different forms of power sharing in modern democracies ?
Give an example of each of these.
15. How does horticulture contribute to the state economy ?
16. Read the extract and answer the questions :

The lives and feelings of women began to be written in intense ways. Liberal husbands and fathers began educating their womenfolk at home, women school were also set up, but not all families were liberal. Conservative Hindus believed that a literate girl would be windowed and Muslims feared that women would be corrupted by reading Urdu romances. Many women writers came forward in favour of educating women by highlighting the experiences of

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woman, about how women were imprisoned at home, treated unjustly and kept in ignorance. Tarabai Shinde and Ramabai wrote with passionate anger about the miserable lives of upper caste Hindu women especially widows.

Questions :

- (a) How did liberal husbands and fathers help their women ? 1
- (b) What was the thinking of conservative Indians ? 2
- (c) Name some women writers other than in the extract who have helped women education. 2

Section-D

(Map Based Question)

17. (a) In an outline map of India locate and label the following seaports (any *three*) :
- (i) Deendayal Port
 - (ii) Mangalore
 - (iii) Marmagao
 - (iv) Mumbi
 - (v) Kochchi
- (b) On the outline map of the world shade and label any two non-federal countries.

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A-I-Y

Roll No.....

Total No. of Questions : 16]

[Total No. of Printed Pages : 15

XARJKUT23

9301-Y

URDU

Time : 3 Hours]

[Maximum Marks : 80

حصہ "الف"

۱۔ درج ذیل عبارت کو غور سے پڑھنے کے بعد اس کے آخر پر دی گئی خالی جگہوں

۵x۱=۵

کو اسی سے چن کر مناسب الفاظ سے پُر کیجئے۔

رضیہ سلطان باقاعدہ دربار لگاتی تھی۔ اس نے برابری اور

بھائی چارے کو عام کیا۔ رضیہ سلطان نے حکومت کے اختیارات کو

چالیس امیروں میں بانٹا جس سے وہ ملکی معاملات میں مشورہ کرتی تھی۔

اس نے "میر آخور" کا سب سے بڑا عمدہ ایک جہتہ، غلام "یا قوت"

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(2)

کو دیا کیونکہ وہ ایمان دار اور جفاکش تھا۔ یہ اہم عہدہ اب تک صرف
ٹُرک امیروں کو ملتا تھا۔ یہ بات ترک امیروں کو پسند نہیں آئی۔ انہوں
نے رضیہ کو تخت سے اتارنے کی سازش کی۔

(i) رضیہ سلطان..... دربار لگاتی تھی۔

(ii) اس نے حکومت کے اختیارات کو..... امیروں میں بانٹا۔

(iii) 'میر آخور' کا بڑا عہدہ..... کو دیا گیا۔

(iv) رضیہ سلطان نے برابری اور..... کو عام کیا۔

(v) رضیہ سلطان کو تخت سے اتارنے کی سازش..... نے کی۔

۲۔ درج ذیل شعری جز کو غور سے پڑھئے اور آخر پر پوچھے گئے سوالات کے

جوابات میں سے درست جواب چن لیجئے۔

۵×۱=۵

نیا نوع انساں کا غم خوار آیا

وہ تخلیق عالم کا شہکار آیا

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(3)

وہ نبیوں کا سر تاج سردار آیا

خوش اندام آیا خوش اطوار آیا

تو آیا تیرے آنے کی آرزو تھی

نکاہوں کو بس تیری ہی جستجو تھی

(۱) نئی نوع انسان کا غم خوار بن کر کون آیا؟

(الف) ابو بکر۔

(ب) محمد ﷺ۔

(ج) عمر فاروق۔

(د) خلیفہ۔

(۲) نبیوں کا سر تاج کون ہے؟

(الف) حضرت محمد۔

(ب) یونس۔

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(4)

(ن) ابرائیم۔

(د) یعقوب۔

(iii) ہمیں محمدؐ کے آنے کی کیا تھی؟

(الف) تمنا۔

(ب) آرزو۔

(ن) جہنم۔

(د) چاہت۔

(iv) یہ نعت کس کی لکھی ہوئی ہے؟

(الف) نظیر۔

(ب) حالی۔

(ن) اقبال۔

(د)



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(5)

(v) یہ شعری جز کس نعت سے لیا گیا ہے؟

(الف) رحمت دو عالم۔

(ب) بنی نوع انسان کا نم خوار آریہ۔

(ج) شان اولاد۔

(د) سجادہ دو عالم۔

۳۔ دی گئی عبارت کو غور سے پڑھنے کے بعد آخر پر دیئے گئے سوالات کے مختصر

2x1=5

جواب لکھئے۔

بلڈش کا پانی قدرتی طور پر صاف رہتا اور پینے کے قابل ہوتا

ہے۔ جب وہ زمین پر بہتا ہے تو نالوں کی شکل میں بہتا ہوا ندیوں اور

تالابوں میں جمع ہو جاتا ہے۔ اس پانی میں مٹی کے ذرات، نمکیات

اور دوسرے مادے بھی شامل ہو جاتے ہیں۔ اس وجہ سے یہ پانی گدلا

ہو جاتا ہے اور پیمپش، قبض، پیٹ کا درد اور ہیضہ جیسی بیماریاں پھیل جاتی

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(6)

ہیں۔ آلودہ پانی کو پینے کے قابل بنانے کے لئے اسے جوش دے۔
ٹھنڈا کریں اور چھان کر کسی صاف برتن میں رکھیں۔

(i) بارش کا پانی قدرتی طور پر کیسا ہوتا ہے؟

(ii) بارش کا پانی جب زمین پر گرتا ہے تو کہاں جاتا ہے؟

(iii) اس پانی میں کون سی چیزیں شامل ہو جاتی ہیں۔

(iv) آلودہ پانی پیئے سے کیا ہو جاتا ہے؟

(v) آلودہ پانی کو پینے کے قابل کیسے بناتے ہیں؟

حصہ ”ب“

۴۔ (الف) درج ذیل الفاظ کو جملوں میں اس طرح استعمال کیجئے کہ ان کا

تذکیر و تانیث واضح ہو جائے۔

(i) کتاب۔



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(ii) دنیار۔

(iii) چاند۔

(ب) درج ذیل الفاظ کو جملوں میں اس طرح استعمال کیجئے کہ ان کا

واحد یا جمع ہونا واضح ہو جائے۔

(i) عورتیں۔

(ii) دن۔

۵۔ دیئے گئے حروف میں سے صرف دو کی تعریف کیجئے اور مثالیں بھی دیجئے۔

(i) حروف جار۔

(ii) حروف انصاف۔

(iii) حروف عطف۔

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۱۔ بدایات کے مطابق جواب لکھئے۔

(الف) ”اسلم کہیلتا ہے“

اس جملے میں لفظ ”اسلم“ کیا ہے؟

(i) صفت۔

(ii) فاعل۔

(iii) مفعول۔

(iv) فعل۔

(ب) ”تاج محل بہت خوبصورت ہے“

اس جملے میں لفظ ”خوبصورت“ کیا ہے؟

(i) فاعل۔

(ii) صفت۔



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(9)

(iii) فعل۔

(iv) مفعول۔

(ج) ”کریم نے آب کو مارا“

اس جملے میں لفظ ”اکبر“ کیا ہے؟

(i) صفت۔

(ii) فاعل۔

(iii) مفعول۔

(iv) فعل۔

(د) ”چادر میلی ہے“

اس جملے میں لفظ ”میلی“ کیا ہے؟

(i) فاعل۔

(ii) صفت۔



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(iii) مفعول۔

(iv) ضمیر۔

(و) ”درزی کپڑے سیتا ہے“

اس جملے میں لفظ ”درزی“ کیا ہے؟

(i) صفت۔

(ii) فاعل۔

(iii) مفعول۔

(iv) فعل۔

۷۔ درج ذیل محاورات میں سے صرف دو کو جملوں میں استعمال کیجئے۔

(i) آفت کا پر کالا۔

(ii) آگ بگولہ ہونا۔

(iii) پالا پڑنا۔

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۸۔ کسی ایک جملے کی ترکیب نموی کیجئے اور پہلے کا نام بھی لکھئے۔

(i) بشیر نادان ہے۔

(ii) حامد نے روٹی کھائی۔

حصہ "ج"

۹۔ درج ذیل اصناف میں سے کسی ایک صنف پر نوٹ لکھئے۔

(i) داستان۔

(ii) ڈراما۔

(iii) قصیدہ۔

(iv) غزل۔

۱۰۔ درج ذیل اسباق میں سے کسی ایک کا خلاصہ لکھئے۔

(i) میر جوتھے درویش کی۔

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(ii) حالی۔

(iii) عبرت۔

11۔ درج ذیل اشعار میں سے صرف تین اشعار کی تشریح کیجئے اور شاعر کا حوالہ بھی دیجئے۔

(i) پہنچا جو آپ کو تو میں پہنچا خدا تیس

معلوم اب ہوا کہ بہت میں بھی ذور تھا۔

(ii) نہ ور سکندر نہ ہے قبر دارا

مٹے نامیوں کے نشان کیسے کیسے

(iii) آگے آتی تھی حال دل پہ ہنسی

اب کسی بات پر نہیں آتی

(iv) نہ تھا میں معتقد اعجازِ مے کا

بڑی مشکل سے منوایا گیا ہوں

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(v) ہم نکل سکتے بھی تو کیوں کر دسارا ات سے

صرف دیواریں ہی دیواریں تھیں دروازہ نہ تھا

(vi) پرچہ امن لئے پھرتے ہیں شہروں شہروں

آستینوں میں چھپائے ہوئے نخر کتنے

۵

۱۲۔ صرف دو سوالوں کے جواب لکھئے۔

(i) ملک صادق کون تھا اور بٹنڈو کے ساتھ ان کا کیا رشتہ تھا؟

(ii) لوگوں کو دھوکہ دینے کے لئے جن کون کون سی چیزیں اپنے پاس رکھتی تھی؟

(iii) پنڈت چندر دھرا اپنے پیٹے سے کیوں بیزار تھے؟

(iv) خوشامدی میں کیا کیا عیب ہوتے ہیں؟

۵

۱۳۔ صرف دو سوالوں کے جواب لکھئے۔

(i) اس قصیدے کو شاعر نے "شہر آشوب" کیوں قرار دیا ہے؟

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(ii) مفلسی آدمی کو کس کس طرح سے ستاتی ہے؟

(iii) شاعر کو ہر بات میں کلفت کیوں نظر آتی ہے؟

(iv) وحدت میں کثرت سے کیا مراد ہے؟

۱۴۔ درج ذیل ادباء اور شعراء میں سے کسی ایک کے حالات زندگی تحریر کیجئے۔

(i) میرامن۔

(ii) ذہنی نذیر احمد۔

(iii) آتش۔

(iv) شاد عظیم آبادی۔

حصہ ”د“

۱۵۔ اپنے چھوٹے بھائی کے نام خط لکھئے جس میں اسے پڑھنے کے ساتھ ساتھ کھیل

کو د میں حصہ لینے کی نصیحت کی گئی ہو۔

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(15)

(یا)

اپنے اسکول کے سربراہ کے نام ڈیپارٹمنٹ ٹیٹیکٹ اجرا کرنے کے لئے درخواست لکھئے۔

۱۱۔ دیئے گئے عنوانات میں سے کسی ایک پر دو سو (۲۰۰) الفاظ پر مشتمل مضمون

A

لکھئے۔

(i) کھیلوں کی اہمیت۔

(ii) کووڈ-۱۹ (Covid 19) کی تباہ کاریاں۔

(iii) وقت کی پابندی۔

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C-1-C

Roll No.

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[Total No. of Printed Pages : 8

10thARJKLK23

9401-C

SOCIAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Objective Type Questions)

1 each

1. Do as directed :

(i) Young Europe the Secret Society was established by Mazzini at :

(A) Liguria

(B) Poland

(C) France

(D) Berne

(Choose the correct option)

(ii) Gandhiji's first successful Satyagraha in India was :

(A) Kheda Satyagraha

(B) Champaran Satyagraha

(C) Ahmedabad Mill Strike

(D) Bardoli Satyagraha

(Choose the correct option)

10thARJKLK23—9401—
C-1-C



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(iii) Chauri Chaura is a place located in..... district of Uttar Pradesh. (Fill in the blank)

(iv) Sadre-Riyasat was elected by Constituent Assembly in Jammu and Kashmir for the term of :

- (A) 3 years (B) 4 years
(C) 5 years (D) 6 years

(Choose the correct option)

(y) Shiekh Mohammad Abdullah became the head of the emergency Administration in Jammu and Kashmir on :

- (A) 27th October, 1947 (B) 28th October, 1947
(C) 29th October, 1947 (D) 30th October, 1947

(Choose the correct option)

(xi) is considered as the author of Naya Kashmir Manifesto.

(Fill in the blank)

(yii) Khetri mines in Rajasthan are the producers of which of the following minerals ?

- (A) Copper (B) Mica
(C) Iron-ore (D) Bauxite

(Choose the correct option)

(yiii) What is the full form of 'TISCO' ?

and

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C-1-C



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(ix) The first Cement Plant was setup in Chennai in :

(A) 1902

(B) 1903

(C) 1904

(D) 1905

(Choose the correct option)

(x) Rice is a Rabi crop.

(True/False)

(xi) industry uses limestone as a raw material.

(Fill in the blank)

(xii) NREGS stands for

(xiii) In democracy a citizen has the right and means to examine the process of decision-making. This is known as :

(A) Dictatorship

(B) Legitimacy

(C) Transparency

(D) Equality

(Choose the correct option)

(xiv) Rule of is known as theocracy.

(Fill in the blank)

(xv) The Jammu and Kashmir Reorganisation Act, 2019 came into effect on :

(A) 5th August, 2019

(B) 9th August, 2019

(C) 31st October, 2019

(D) 31st December, 2019

(Choose the correct option)

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C-1-C



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(xvi) Who was the ruler of Jammu and Kashmir to sign the instrument of Accession with India ?

(A) Maharaja Gulab Singh

(B) Maharaja Hari Singh

(C) Maharaja Ranjit Singh

(D) Maharaja Pratap Singh (Choose the correct option)

(xvii) R.S. Pura known for production of Basmati Rice is located in which of the following districts ?

(A) Samba

(B) Jammu

(C) Kathua

(D) Poonch

(Choose the correct option)

(xviii) The River Jhelum is famous for

(Fill in the blank)

(xix) How many heart compressions per minute are given in the centre of chest to make the heart function well till medical help is made available ?

(A) Around 80 to 100

(B) Around 90 to 110

(C) Around 50 to 80

(D) Around 50 to 70

(Choose the correct option)

(xx) years take plastic bags for its decomposition.

(Fill in the blank)

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C-1-C



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Section-B

(Short Answer Type Questions)

3 each

Note :- Answer to these questions should be **40 to 60** words each.

2. Why Gandhiji decided to withdraw the Non-cooperation Movement ?
3. Give *two* examples from history to show impact of technology on food availability.

Or

Why did the East India Company appoint Gomasthas to supervise Weavers in India ?

4. What is meant by the Bretton Woods Agreement ?

Or

Explain what is meant by Proto-industrialisation ?

5. Distinguish between Conventional and Non-conventional sources of Energy.
6. Read the passage and answer the questions :

The legislative powers are divided between the Union Government and the State Government by the seventh schedule of the Constitution of India in form of three Lists—Union list, State list, Concurrent list. The union list contains subjects of national importance like defence,

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C-1-C



Turn Over

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foreign affairs etc. The state list contains subjects like police, trade, irrigation etc. The concurrent list contains subjects like education, forests, marriage, adoption, succession etc. Subjects like computer software and e-Commerce which were not there at the time of framing of constitution are called residuary subjects. Like the subjects of union list only Central Government can legislate on them.

Questions :

- (i) Suppose a new subject comes into being. Which Govt. can legislate on it ?
- (ii) Which schedule of the Constitution divides the subject into three lists ? <https://www.jkboseonline.com>
- (iii) What are residuary subjects ?

7. State how caste inequalities are still continuing in India.
8. What are various challenges faced by Political Parties ?
9. How employment generation in Jammu and Kashmir can be increased ?
10. What should be the constituents of First Aid Kit ?
11. The land under cultivation has got reduced day by day. Can you imagin its consequences ?

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C-1-C



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Section-C

(Long Answer Type Questions)

5 each

Note :- Answer to these questions should be 100 to 130 words each.

12. How was the history of nationalism in Britain unlike the rest of Europe ?
13. How have technical and economic development led to more consumption of resources ?
14. What are the different forms of power sharing in modern democracies ? Give an example of each of these.
15. Discuss the role of tourism in generating employment in Jammu and Kashmir.
16. Read the extract and answer the questions :

Due to the Print revolution the reading habit of the public increased, as books were now less costly. This was because the time and labour required to produce a book came down and multiple copies could be produced with great ease. Books flooded the market and were easily available for the public. Before printed books flooded the markets the common people used to gather in public places and books were read out to them. They heard sacred texts read out, ballads recited and folk tales told.

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C-1-C



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Turn Over

Questions :

- (i) Why reading habit of people increased ?
- (ii) Why books flooded the markets ?
- (iii) Before print revolution, what people used to hear at public places ?

Section-D

(Map Based Question)

17. (a) Indicate the following in a given outline map of India :
- (i) Netaji Subash Chandra Bose International Airport
 - (ii) Mumbai Port
 - (iii) The North-South Corridors Linking Srinagar and Kanyakumari
- (b) Identify and shade two federal countries (other than India) on a given outline map of the World.

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A-4-Z

Roll No.....

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9304-Z
SOCIAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Objective Type Questions)

1 each

1. Do as directed :

(i) Napoleonic code was introduced in the year of :

(A) 1809

(B) 1807

(C) 1805

(D) 1804

(Choose the correct option)

(ii) Which person is known as the 'Frontier Gandhi' ?

(A) Feroz Gandhi

(B) Nehru

(C) Khan Abdul Ghaffar Khan

(D) S.C. Bose

(Choose the correct option)

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A-4-Z

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(iii) When was Dogras heredity position abolished ?

(A) 1951

(B) 1952

(C) 1953

(D) 1954

(Choose the correct option)

(iv) Tea cultivation is an example of agriculture.

(Fill in the blank)

(v) Macfi Nama poem was written by :

(A) Dina Nath Nadim

(B) Prof. Ram Nath Shastri

(C) Rehman Rahi

(D) Dinoo Bhai Bant

(Choose the correct option)

(vi) Distressed Debtors Act was passed in 1950. (True/False)

(vii)up..... state is largest producer of wheat in India.

(Fill in the blank)

(viii) The Congress split at Surat in :

(A) 1905

(B) 1907

(C) 1909

(D) 1911

(Choose the correct option)

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(ix) For which, is Raniganj famous for :

- (A) Atomic energy (B) Iron ore
(C) Coal reserve (D) Oil field

(Choose the correct option)

(x) The High Court of will function as the High Court
for both Jammu-Kashmir and Ladakh. (Fill in the blank)

(xi) SAIL is a public sector industry. (True/False)

(xii) is the electronic capital of India.
Bangalore (Fill in the blank)

(xiii) Heavy industries are :

- (A) Capital intensive
(B) Labour intensive
(C) Land intensive
(D) All of these

(Choose the correct option)

(xiv) Expected outcome of democracy is :

- (A) Democracy
(B) Dictatorship
(C) Both (A) and (B)

(D) None of these (Choose the correct option)

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(xv) Democracies have successfully eliminated
(Fill in the blank)

(xvi) There are major craft clusters in Jammu and Kashmir.

- (A) 178 (B) 179
(C) 180 (D) 181

(Choose the correct option)

(xvii) Which Article of Indian Constitution empowered State Legislature to define the status of permanent residents of the state ?

- (A) 35-A (B) 36-A
(C) 370-A (D) 308-A

(Choose the correct option)

(xviii) What is the full form of SDRF ?

(xix) Wular Lake is situated in (Fill in the blank)

(xx) Kashmir falls in which of the seismic zones ?

- (A) I (B) IV and V
(C) II (D) III

(Choose the correct option)

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Section-B

(Short Answer Type Questions)

3 each

Note :- Answer to these questions should be 40 to 60 words each.

2. Why was Civil Disobedience launched ?

3. Explain the three types of movements or flows within international economic exchange. Find one example of each type of flow which involved India and Indians and write a short account of it.

Or

Why did some industrialists in nineteenth century Europe prefer hand labour over machines ?

4. Explain the consequences of Great Depression.

Or

The East India Company appointed gomasthas to supervise weavers in India. Explain.

5. Describe the important features of rice cultivation.

6. Describe the four different types of coal found in India.

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7. A few subjects in various lists of Indian Constitution are given here. Group them under the union, state and concurrent lists as provided in the table below :

- (i) Defence
 - (ii) Police
 - (iii) Agriculture
 - (iv) Education
 - (v) Banking
 - (vi) Forests
 - (vii) Communications
 - (viii) Trade
 - (ix) Marriages :
- Union list
- State list
- Concurrent list

8. Explain the challenges faced by the political parties.

9. Mention different aspects of life in which woman are discriminated or disadvantaged in India.

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10. What should be the approach to help a fire burn patient ?
11. Write a brief note on micro, small and medium scale industries in employment generation in J & K.

Section-C

(Long Answer Type Questions)

5 each

Note :- Answer to these questions should be 100 to 130 words each.

12. Briefly trace the process of German unification.
13. Name the soils found in India. Discuss any *one* in detail.
14. What are the different forms of power sharing in modern democracies ?
Give an example of each of these. <https://www.jkboseonline.com>
15. How does horticulture contribute to the state economy ?
16. Read the extract and answer the questions :

The lives and feelings of women began to be written in intense ways. Liberal husbands and fathers began educating their womenfolk at home, women school were also set up, but not all families were liberal. Conservative Hindus believed that a literate girl would be windowed and Muslims feared that women would be corrupted by reading Urdu romances. Many women writers came forward in favour of educating women by highlighting the experiences of

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woman, about how women were imprisoned at home, treated unjustly and kept in ignorance. Tarabai Shinde and Ramabai wrote with passionate anger about the miserable lives of upper caste Hindu women especially widows.

Questions :

- (a) How did liberal husbands and fathers help their women ? 1
- (b) What was the thinking of conservative Indians ? 2
- (c) Name some women writers other than in the extract who have helped women education. 2

Section-D

(Map Based Question)

17. (a) In an outline map of India locate and label the following seaports (any three) :
- (i) Deendayal Port
 - (ii) Mangalore
 - (iii) Mormagao
 - (iv) Mumbai
 - (v) Kochchi
- (b) On the outline map of the world shade and label any two non-federal countries.

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Roll No.....

Total No. of Questions : 36]

[Total No. of Printed Pages : 16

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9305-Z

SCIENCE

Time : 3 Hours]

[Maximum Marks : 80

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- This question paper has four Sections-A, B, C and D. There are thirty six questions in the question paper and all questions are compulsory.
- Section-A (Q. Nos. 1 to 20) all questions and parts thereof are of 1 mark each. These questions contain multiple choice questions, very short answer type questions and assertions-reason type questions. Answer to these should be given in one word or one sentence.
- Section-B (Q. Nos. 21 to 26) are short answer type questions carrying 2 marks each.
- Section-C (Q. Nos. 27 to 33) carry 3 marks each.

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- (e) Section-D (Q. Nos. 34 to 36) are long answer type questions carrying 5 marks each.
- (f) There is no overall choice. However internal choices have been provided in some questions. A student has to attempt only *one* of the alternatives in such questions.
- (g) Wherever necessary, neat and properly labelled diagrams should be drawn.

Section-A

1. Name the mirror which can give an erect and diminished image of an object.
2. A ray of light passes from air into glass, Is the angle of refraction greater or less than the angle of incidence ?
3. Which type of lenses are thicker in the middle than at the edges ?

Or

A concave lens produces an image 20 cm from the lens of an object placed 30 cm from the lens. Find the focal length of the lens.

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4. A beam of white light falling on a glass prism cannot be :
- (A) deviated
 - (B) dispersed
 - (C) focused
 - (D) refracted
5. In household circuits, is a fuse wire connected in series or in parallel ?
6. What type of generator is used at power stations ?
7. In Mendeleev's periodic table, gap was not left for one of the following elements. This element is :
- (A) Gallium
 - (B) Beryllium
 - (C) Germanium
 - (D) Scandium

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8. What is the common name of propanone ?

Or

Name the gas evolved when ethanoic acid is added to sodium carbonate.

9. The electrons present in the valence shell of a noble gas atom can be :

(A) 8 only

(B) 2 only

(C) 8 or 4

(D) 8 or 2

10. The acid produced naturally in our stomach is :

(A) Acetic acid

(B) Citric acid

(C) Hydrochloric acid

(D) Sulphuric acid

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11. In which part of the digestive system is water absorbed ?
12. Name the process by which plant parts like roots, stems and leaves get oxygen required for respiration.
13. What are the male sex cells in humans called ?

From question Nos. 14 to 16, two statements (Assertion-A and Reason-R) are given. Select the correct answer from codes A, B, C and D as given below :

- (A) Both A and R are true and R is correct explanation of the assertion.
- (B) Both A and R are true but R is not the correct explanation of the assertion.
- (C) A is true but R is false.
- (D) A is false but R is true.

14. **Assertion (A) :** Spores are unicellular bodies.

Reason (R) : The parent body simply breaks up into smaller pieces on maturation.

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A-5-Z

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15. **Assertion (A)** : Natural resources need to be used carefully.

Reason (R) : Resources are finite in supply and human population is tremendously increasing.

16. **Assertion (A)** : The sex of a child is determined by the mother.

Reason (R) : Humans have two types of chromosomes : XX and XY.

17. Read the following passage and answer any *four* questions :

All the electrical heating appliances have a heating element which helps in converting most of electrical energy into heat energy.

(i) The elements of electrical heating devices are usually made of :

(A) Tungsten

(B) Bronze

(C) Nichrome

(D) Argon

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-5-Z



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- (ii) Which of the following characteristics is not suitable for a fuse wire ?
- (A) Thin and short
 - (B) Thick and short
 - (C) ~~Low~~ melting point
 - (D) Higher resistance
- (iii) The heat produced by passing an electric current through a fixed resistor is proportional to the square of :
- (A) Resistance of wire
 - (B) Current
 - (C) Temperature of resistor
 - (D) Time for which current is passed
- (iv) If the current flowing through a fixed resistor is halved, the heat produced in it will become :
- (A) Double
 - (B) One half
 - (C) One fourth
 - (D) Four times

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A-5-Z



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- (v) An electric fuse works on the
- (A) Chemical effect of current
 - (B) Magnetic effect of current
 - (C) Lighting effect of current
 - (D) Heating effect of current

18. Read the following passage and answer any *four* questions :

An acid is a substance which dissociates on dissolving in water. To test for acids, indicators are used.

(i) The indicators which turn red in acid solution are :

- (A) Turmeric and litmus
- (B) Phenolphthalein and litmus
- (C) Litmus and methyl orange
- (D) Phenolphthalein and methyl orange

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A-5-Z



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(ii) The property which is common between vinegar and curd is that they :

(A) have sweet taste

(B) are tasteless

(C) have bitter taste

(D) have sour taste

(iii) The indicator which produces a pink colour in an alkaline solution is :

(A) Methyl orange

(B) Turmeric powder

(C) Phenolphthalein

(D) Litmus paper

(iv) One of the following is not an organic acid. This is :

(A) Ethanoic acid

(B) Formic acid

(C) Citric acid

(D) Carbonic acid

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4-5-Z

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(v) The property which is not shown by acid is :

- (A) they have sour taste (B) they feel soapy
(C) they turn litmus red (D) their pH is < 7

19. Read the following passage and answer any *four* questions :

Both plants and animals react (respond) to various stimuli around them but the method is not similar in plants and animals. The control and coordination in higher animals takes place through nervous system.

(i) Which of the following helps in maintaining posture and balance of the human body ?

- (A) Cerebellum (B) Cerebrum
(C) Medulla (D) Pons

(ii) The number of pairs of nerves which arise from the spinal cord is :

- (A) 21 (B) 41
(C) 31 (D) 51

(iii) The spinal cord originates from :

- (A) Cerebrum (B) Cerebellum
(C) Medulla (D) Pons

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4-5-Z



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- (iv) The involuntary actions in the body are controlled by :
- (A) Medulla in forebrain (B) Medulla in hindbrain
(C) Medulla in spinal cord (D) Medulla in mid brain
- (v) Cerebellum, medulla and pons are the parts of :
- (A) midbrain (B) hindbrain
(C) forebrain (D) spinal cord

20. Read the following passage and answer any *four* questions :

Food contains energy and this energy can be transferred from one organism to other through food chains :

(i) Which of the following constitutes a food chain ?

- (A) Grass, Wheat and Mango (B) Goat, Cow and Elephant
(C) Grass, Goat and Human (D) Grass, Fish and Goat

(ii) In a food chain, the initial organism is usually :

- (A) Photosynthetic (B) Herbivore
(C) Saprophytic (D) Parasitic

(iii) In a food chain, the third trophic level is always occupied by :

- (A) Carnivores (B) Decomposers
(C) Herbivores (D) Producers

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A-5-Z



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- (iv) One of the following is not a consumer this one is :
- (A) Giraffe (B) Antelope
(C) Algae (D) Alligator
- (v) In the food chain comprising of a snake, grass, insect and frog, the secondary consumer is :
- (A) Insect (B) Snake
(C) Frog (D) Grass

Section-B

21. There are two types of light sensitive cells in the human eye ;

- (i) Where are they found ?
(ii) What is each type called ?

Or

Make the diagram to explain refraction and dispersion.

22. What is atmospheric refraction ? Give its cause.

23. Two resistors with resistances 2Ω and 4Ω respectively are to be connected to a battery of e.m.f. 6 V so as to obtain maximum current flowing. Find the current in that case.

Or

Find the energy transferred by a 100 W electric bulb in 1 minute.

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4-5-Z



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24. What is the principle of an electric motor ? Name *two* devices in which electric motor is used.
25. What is a balanced chemical equation ? Why should chemical equations be balanced ?
26. What are Metals ? State *two* physical properties of metals.

Section-C

27. Why are fossil fuels classified as non-renewable sources of energy ?

Or

What is Biomass ? Give *three* examples of it.

28. Define a combination reaction. Give *two* examples of combination reaction.
29. How does the size of atom generally vary in going from left to right in a period of the periodic table ? Why does it vary this way ?
30. What is the difference between a mineral and an ore ? Name *one* ore of sodium. Write the chemical formula of sodium compound present in this ore.
31. Explain Vegetative propagation with the help of *two* examples. List *two* advantages of it.

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A-5-Z



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32. What is meant by acquired and inherited traits ? Explain with *one* example each.
33. Why should we conserve forests and wildlife ?

Section-D

34. (a) Construct a ray diagram to illustrate the formation of a virtual image using :
- (i) a converging lens
 - (ii) a diverging lens
- (b) What is the difference between the two images formed above ?

Or

- (a) State *three* characteristics of the image formed by a convex mirror.
- (b) An object 1 cm tall is placed 30 cm in front of a convex mirror of focal length 20 cm. Find the size and position of the image formed by the convex mirror.

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A-5-Z



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35. (a) Give the molecular formula of one homologue of each of the following :
- (i) C_3H_6
 - (ii) C_2H_6
 - (iii) C_2H_2
- (b) What is the difference in the molecular mass of any *two* adjacent homologues ?
- (c) By how many carbon atoms and hydrogen atoms do any *two* adjacent homologues differ ? <https://www.jkboseonline.com>

Or

- (a) Explain the term 'isomers'. Give an example of isomers.
- (b) Write the following :
- (i) Structural formula
 - (ii) Electron dot structure of any *one* isomer of C_7H_{16}
- (c) How many isomers of the following hydrocarbons are possible ?
- (i) C_3H_8
 - (ii) C_4H_{10}
 - (iii) C_5H_{12}
 - (iv) C_6H_{14}

Turn Over

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1-5-Z



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36. (a) Define Nutrition. Why is nutrition necessary for an organism ?
- (b) What are different modes of nutrition ? Explain each mode of nutrition with example.

Or

- (a) Name the various organs of the human excretory system and draw the diagram.
- (b) What is the function of excretory system in humans ?

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SCIENCE

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- (g) Wherever necessary, neat and properly labelled diagrams should be drawn.

Section-A

1. ✓ Which type of mirror could be used as a shaving mirror ?
2. Name the phenomenon due to which a swimming pool appears less deep than it really is.
3. ✓ Which type of lenses are thinner in the middle than at the edges ?

Or

The power of a lens is +2.5 D, what kind of lens it is and what is its focal length ?

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A-5-X



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4. Which of the following colour of white light has the least wavelength ?

(A) Red

(B) Orange

(C) Violet

(D) Blue

5. Of what substance is the fuse wire made ?

6. Out of an A.C. generator and a D.C. generator, which one uses slip rings ?

7. The Newlands law of octaves for the classification of elements was found to be applicable only upto the element :

(A) Potassium

(B) Calcium

(C) Cobalt

(D) Phosphorus

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8. What is the common name of methanol ?

Or

Name the product when hydrogen is added to ethene.

9. A covalent bond molecule having a double bond between its is :

(A) Hydrogen

(B) Oxygen

(C) Water

(D) Ammonia

10. Bee stings can be treated with :

(A) Vinegar

(B) Potassium Hydroxide

(C) Sodium Hydrogen Carbonate

(D) Lemon juice

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A-5-X



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11. Name *one* organism which can live without oxygen.

12. What is the other name of food pipe ?

13. What are the female sex cells in humans called ?

From question Nos. 14 to 16, two statements (Assertion–A and Reason–R) are given. Select the correct answer from codes A, B, C and D as given below :

(A) Both A and R are true and R is correct explanation of the assertion.

(B) Both A and R are true but R is not the correct explanation of the assertion.

(C) A is true but R is false.

(D) A is false but R is true.

14. **Assertion (A)** : Spores are unicellular bodies.

Reason (R) : The parent body simply breaks up into smaller pieces on maturation.

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A–5–X



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15. ~~Assertion~~ (A) : Natural resources need to be used carefully.

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Reason (R) : Humans have two types of chromosomes : XX and XY.

17. Read the following passage and answer any *four* questions :

All the electrical heating appliances have a heating element which helps in converting most of electrical energy into heat energy.

(i) The elements of electrical heating devices are usually made of :

(A) Tungsten

(B) Bronze

(C) Nichrome

(D) Argon

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(ii) Which of the following characteristics is not suitable for a fuse wire ?

- (A) Thin and short
- (B) Thick and short
- (C) Low melting point.
- (D) Higher resistance

(iii) The heat produced by passing an electric current through a fixed resistor is proportional to the square of :

- (A) Resistance of wire
- (B) Current ✓
- (C) Temperature of resistor
- (D) Time for which current is passed ✓

(iv) If the current flowing through a fixed resistor is halved, the heat produced in it will become :

- (A) Double
- (B) One half
- (C) One fourth
- (D) Four times

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(v) An electric fuse works on the :

- (A) Chemical effect of current
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- (D) Heating effect of current

18. Read the following passage and answer any *four* questions :

An acid is a substance which dissociates on dissolving in water. To test for acids, indicators are used.

(i) The indicators which turn red in acid solution are :

- (A) Turmeric and litmus
- (B) Phenolphthalein and litmus \times BR
- (C) Litmus and methyl orange \checkmark
- (D) Phenolphthalein and methyl orange \times

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- (ii) The property which is common between vinegar and curd is that they :
- (A) have sweet taste
 - (B) are tasteless ✓
 - (C) have bitter taste
 - (D) have sour taste
- (iii) The indicator which produces a pink colour in an alkaline solution is :
- (A) Methyl orange
 - (B) Turmeric powder
 - (C) Phenolphthalein
 - (D) Litmus paper
- (iv) One of the following is not an organic acid. This is :
- (A) Ethanoic acid
 - (B) Formic acid
 - (C) Citric acid
 - (D) Carbonic acid

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(v) The property which is not shown by acid is :

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(C) they turn litmus red ✓ (D) their pH is < 7 ✓

19. Read the following passage and answer any *four* questions :

Both plants and animals react (respond) to various stimuli around them but the method is not similar in plants and animals. The control and coordination in higher animals takes place through nervous system.

(i) Which of the following helps in maintaining posture and balance of the human body ?

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(C) Medulla (D) Pons

(ii) The number of pairs of nerves which arise from the spinal cord is :

- (A) 21 (B) 41
(C) 31 (D) 51

(iii) The spinal cord originates from :

- (A) Cerebrum (B) Cerebellum
(C) Medulla (D) Pons

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A-5-X



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(iv) The involuntary actions in the body are controlled by :

- ✓ (A) Medulla in forebrain (B) Medulla in hindbrain
(C) Medulla in spinal cord (D) Medulla in mid brain

~~(v)~~ Cerebellum, medulla and pons are the parts of :

- (A) midbrain (B) hindbrain
(C) forebrain (D) spinal cord

20. Read the following passage and answer any *four* questions :

Food contains energy and this energy can be transferred from one organism to other through food chains :

(i) Which of the following constitutes a food chain ?

- (A) Grass, Wheat and Mango (B) Goat, Cow and Elephant
(C) Grass, Goat and Human (D) Grass, Fish and Goat

(ii) In a food chain, the initial organism is usually :

- (A) Photosynthetic (B) Herbivore
(C) Saprophytic (D) Parasitic G a e a e e

(iii) In a food chain, the third trophic level is always occupied by :

- (A) Carnivores (B) Decomposers
(C) Herbivores (D) Producers

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A-5-X



Turn Over

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- (iv) One of the following is not a consumer this one is :
- (A) Giraffe (B) Antelope
(C) Algae (D) Alligator
- (v) In the food chain comprising of a snake, grass, insect and frog, the secondary consumer is :
- (A) Insect (B) Snake ✓
(C) Frog (D) Grass ✓

Section-B

✗ There are two types of light sensitive cells in the human eye :

- (i) Where are they found ?
(ii) What is each type called ?

✗ Make the diagram to explain refraction and dispersion.

22. ✗ Why do stars twinkle on a clear night ?

23. ✗ Two resistors with resistances 2Ω and 4Ω respectively are to be connected to a battery of e.m.f. 6 V so as to obtain maximum current flowing. Find the current in that case.

Or

✗ Find the energy transferred by a 100 W electric bulb in 1 minute.

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A-5-X



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24. What is Magnetic field ? State any *two* properties of magnetic field lines.
25. What do you understand by endothermic reaction ? Give *one* example.
26. What is Corrosion ? Name any *two* metals which do not corrode easily.

Section-C

27. Why are fossil fuels classified as non-renewable sources of energy ?

Or

What is Biomass ? Give *three* examples of it.

28. What is decomposition reaction ? Give *two* examples of decomposition reaction.
29. How does the size of atom generally vary in going from left to right in a period of the periodic table ? Why does it vary this way ?
30. What is the difference between a mineral and an ore ? Name *one* ore of sodium. Write the chemical formula of sodium compound present in this ore.
31. Explain Vegetative propagation with the help of *two* examples. List *two* advantages of it.

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32. What is meant by acquired and inherited traits ? Explain with one example each.

33. Why should we conserve forests and wildlife ?

Section-D

34. (a) Construct a ray diagram to illustrate the formation of a virtual image using :

(i) a converging lens ,

(ii) a diverging lens

(b) What is the difference between the two images formed above ?

Or

(a) State three characteristics of the image formed by a convex mirror. <https://www.jkboseonline.com>

(b) An object 11 cm tall is placed 30 cm in front of a convex mirror of focal length 20 cm. Find the size and position of the image formed by the convex mirror.

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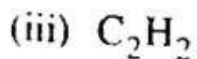
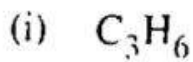


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A-5-X

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35. (a) Give the molecular formula of one homologue of each of the following :



(b) What is the difference in the molecular mass of any *two* adjacent homologues ?

(c) By how many carbon atoms and hydrogen atoms do any *two* adjacent homologues differ ?

Or

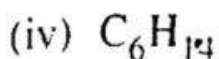
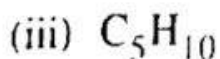
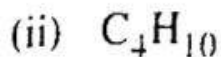
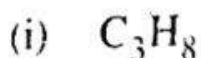
(a) Explain the term 'isomers'. Give an example of isomers.

(b) Write the following :

(i) Structural formula

(ii) Electron dot structure of any *one* isomer of C_7H_{16} .

(c) How many isomers of the following hydrocarbons are possible ?



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4-5-X

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Turn Over

36. (a) Define Nutrition. Why is nutrition necessary for an organism ?

(b) What are different modes of nutrition ? Explain each mode of nutrition with example.

Or

(a) Name the various organs of the human excretory system and draw the diagram.

(b) What is the function of excretory system in humans ?

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A-3-Z

Total No. of Questions : 40]

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XARJKUT23

9303-Z

MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 80

Section-A

1 each

1. The number 1 is :

- (A) a prime number
- (B) a composite number
- (C) an even number
- (D) None of these

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A-3-Z



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2. Zeroes of the quadratic polynomial $4x^2 + 8x$ are :

(A) 0, -2

(B) 0, 2

(C) 0, 4

(D) None of these

3. The 10th term of the A.P. 1, 4, 7, is :

(A) 18

(B) 28

(C) 8

(D) None of these

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A-3-Z



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4. Distance between the points (x, y) and $(0, 0)$ is :

(A) $\sqrt{x^2 - y^2}$

(B) $\sqrt{x + y}$

(C) $\sqrt{x^2 + y^2}$

(D) None of these

5. For what value of K : $4x + 6y = 11$ and $2x + Ky = 7$ are inconsistent ?

(A) $K = 2$

(B) $K = 3$

(C) $K = 4$

(D) None of these

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A-3-Z



Turn Over

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6 Length of an arc of a sector of angle θ is :

(A) $\frac{\theta}{360} \times \pi r$

(B) $\frac{\theta}{360} \times \pi r^2$

(C) $\frac{\theta}{360} \times 2\pi r$

(D) None of these

7. From a point inside the circle the number of tangents that can be drawn is :

(A) 1

(B) 0

(C) 2

(D) None of these

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8. A card is drawn from a pack of 52 cards. What is the probability of getting an Ace card ?

(A) $\frac{1}{13}$

(B) $\frac{1}{26}$

(C) $\frac{4}{13}$

(D) None of these

9. $\cot A$ is not defined for

(A) $A = 90^\circ$

(B) $A = 0^\circ$

(C) $A = 45^\circ$

(D) None of these

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A-3-Z



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10. The quadratic equation $x^2 + 4x + 5 = 0$ has discriminant equal to :

(A) 4

(B) -4

(C) 20

(D) None of these

11. If p, q are two prime numbers, then L.C.M. (p, q) is

(Fill in the blank)

12. The series 2, 4, 8, 16, is an A.P. (True/False)

Or

The next term of the A.P. $\frac{1}{3}, \frac{5}{3}, \frac{9}{3}, \frac{13}{3}, \dots$ is $\frac{17}{3}$. (True/False)

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13. The value of $\sin \theta$ increases as θ increases. (True/False)

14. All squares are (Similar/Congruent)

15. A line intersecting the circle at two different points is called
..... (Fill in the blank)

16. Write the formula for finding the area of triangle whose vertices are
 (x_1, y_1) , (x_2, y_2) and (x_3, y_3) .

Define Collinear Points.

17. State AA similarity criterion for two triangles.

18. Define Line of Sight.

19. What is the sum of the probabilities of all the elementary events of
an experiment ?

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A-3-Z



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20. Write the formula for volume of a sphere.

Section-B

2 each

21. Find the H.C.F. of 336 and 54.

22. A drinking glass is in the shape of a frustum of a cone of height 14 cm. The diameters of its two circular ends are 4 cm and 2 cm.

Find the capacity of the glass.

23. Solve the pair of linear equations :

$$3x + 4y = 10$$

$$2x - 2y = 2$$

by substitution method.

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A-3-Z



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24. Given $15 \cot A = 8$, find $\sin A$ and $\sec A$.

Or

Evaluate :

$$2 \tan^2 45^\circ + \cos^2 30^\circ - \sin^2 60^\circ$$

25. A bag contains 3 red balls and 5 black balls. A ball is drawn at random from the bag. What is the probability that the ball drawn is :

(i) red ?

(ii) not red ?

26. A class teacher has the following absentee record of 40 students of a class for the whole term. Find the mean number of days a student was absent :

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A-3-Z



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Number of Days	Number of Students
0-6	11
6-10	10
10-14	7
14-20	4
20-28	4
28-38	3
38-40	1

Section-C

3 each

27 Obtain all other zeroes of $3x^4 + 6x^3 - 2x^2 - 10x - 5$, if two of

its zeroes are $\sqrt{\frac{5}{3}}$ and $-\sqrt{\frac{5}{3}}$

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(11)

Or

Find a quadratic polynomial, the sum and product of whose zeroes

are $\sqrt{2}$ and $\frac{1}{3}$, respectively.

28. A fraction becomes $\frac{1}{3}$ when 1 is subtracted from the numerator and

it becomes $\frac{1}{4}$ when 8 is added to its denominator. Find the fraction.

29. Find the roots of the quadratic equation $2x^2 + x - 6 = 0$ by factorization.

30. Find the 31st term of an A.P. whose 11th term is 38 and the 16th term is 73.

Or

Find the sum of the first 15 multiples of 8.

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31. Write all the other trigonometric ratios of $\angle A$ in terms of $\sec A$.
32. Prove that the lengths of tangents drawn from an external point to a circle are equal.

Or

The length of a tangent from a point A at distance 5 cm from the centre of the circle is 4 cm. Find the radius of the circle.

33. Find the area of a quadrant of a circle whose circumference is 22 cm.
34. How many silver coins, 1.75 cm in diameter and of thickness 2 mm, must be melted to form a cuboid of dimensions $5.5 \text{ cm} \times 10 \text{ cm} \times 3.5 \text{ cm}$?

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Section-D

4 each

35. A train travels 360 km at a uniform speed. If the speed had been 5 km/h more, it would have taken 1 hour less for the same journey. Find the speed of the train.

Or

Find the roots of $4x^2 + 3x + 5 = 0$ by the method of completing the square.

- 36 The angles of elevation of the top of a tower from two points at a distance of 4 m and 9 m from the base of the tower and in the same straight line with it are complementary. Prove that the height of the tower is 6 m

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A-3-Z



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37. Find the area of the quadrilateral whose vertices taken in order, are $(-4, -2)$, $(-3, -5)$, $(3, -2)$ and $(2, 3)$.

Or

If A and B are $(-2, -2)$ and $(2, -4)$, respectively, find the coordinates of P such that $AP = \frac{3}{7}AB$ and P lies on the line segment AB. <https://www.jkbosonline.com>

38. Prove that the line joining the mid-points of any two sides of a triangle is parallel to the third side.

Or

In an equilateral triangle, prove that three times the square of one side is equal to four times the square of one of its altitudes.

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A-3-Z



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39. Draw a pair of tangents to a circle of radius 5 cm which are inclined to each other at an angle of 60° .
40. If the median of the distribution given below is 28.5, find the values of x and y :

Class Interval	Frequency
0-10	5
10-20	x
20-30	20
30-40	15
40-50	y
50-60	5
Total	60

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A-3-Z



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A-3-Y

Roll No.....

Total No. of Questions : 40]

[Total No. of Printed Pages : 15

XARJKUT23

9303-Y

MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 80

Section-A

1 each

1. The number $\sqrt{2}$ is :

(A) an even number

(B) a rational number

(C) an irrational number

(D) None of these

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A-3-Y

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2. Sum of zeroes of the quadratic polynomial $x^2 + 7x + 10$ is :

(A) -7

(B) 10

(C) 7

(D) None of these

3. The 11th term of an A.P. 3, 3, 3, 3, is :

(A) 0

(B) 3

(C) 33

(D) None of these

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A-3-Y



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4. Distance between the points (0, 3) and (2, 0) is :

(A) $\sqrt{5}$

(B) $\sqrt{13}$

(C) $\sqrt{6}$

(D) None of these

5. Circumference of a circle with radius 'r' is :

(A) πr

(B) $2\pi r$

(C) $3\pi r$

(D) None of these

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A-3-Y



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6. ✓ $Kx + 2y = 5$ and $3x + y = 1$, has a unique solution if :

(A) $K = 6$

(B) $K = 0$

(C) $K \neq 6$

(D) None of these

7. † How many tangents can a circle have ?

(A) 1

(B) Infinite

(C) 2

(D) None of these

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A-3-Y



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8. A card is drawn from a pack of 52 cards. What is the probability of getting a King of red colour ?

(A) $\frac{1}{13}$

(B) $\frac{1}{2}$

(C) $\frac{1}{26}$

(D) None of these

9. $1 + \tan^2 \theta$ is equal to :

(A) $\operatorname{cosec}^2 \theta$

(B) $\sec^2 \theta$

(C) $-\sec^2 \theta$

(D) None of these

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A-3-Y



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10. The sum of the roots of the quadratic equation $ax^2 + bx + c = 0$,

$a \neq 0$ is :

(A) $\frac{c}{a}$

(B) $-\frac{b}{a}$

(C) $\frac{b}{a}$

(D) None of these

11. H.C.F. of two consecutive even numbers is

(Fill in the blank)

12. The sum of first five multiples of 3 is 45.

(True/False)

Or

$a_n = a + (n - 1)d$ is the n th term of an A.P. series.

(True/False)

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A-3-Y



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13. $\operatorname{cosec}^2 \theta - \cot^2 \theta = 1$. (True/False)

14. All circles of different radii are (Congruent/Similar)

15. The tangent at any point of a circle is to the radius through the point of contact. (Fill in the blank)

16. Define Section Formula.

Or
Define Abscissa of a point.

17. State Pythagoras Theorem.

18. Define Angle of Depression.

19. What is the probability of impossible event ?

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A-3-Y



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20. Write the formula for volume of a cylinder.

Section-B

2 each

21. Find the L.C.M. of 26 and 91.

22. A drinking glass is in the shape of a frustum of a cone of height 14 cm. The diameters of its two circular ends are 4 cm and 2 cm.

Find the capacity of the glass.

23. Solve the pair of linear equations :

$$2x + 3y = 11$$

$$2x - 4y = -24$$

by substitution method.

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A-3-Y

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24. Given $15 \cot A = 8$. find $\sin A$ and $\sec A$.

Or

Evaluate :

$$2 \tan^2 45^\circ + \cos^2 30^\circ - \sin^2 60^\circ$$

25. A bag contains 3 red balls and 5 black balls. A ball is drawn at random from the bag. What is the probability that the ball drawn is :

(i) red ?

(ii) not red ?

26. A class teacher has the following absence record of 40 students of a class for the whole term. Find the mean number of days a student was absent :

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Number of Days	Number of Students
0-6	11
6-10	10
10-14	7
14-20	4
20-28	4
28-38	3
38-40	1

Section-C

3 each

27. Obtain all other zeroes of $3x^4 + 6x^3 - 2x^2 - 10x - 5$, if two of its zeroes are $\sqrt{\frac{5}{3}}$ and $-\sqrt{\frac{5}{3}}$.

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Or

Find a quadratic polynomial, the sum and product of whose zeroes are $\sqrt{2}$ and $\frac{1}{3}$, respectively.

28. A fraction becomes $\frac{1}{3}$ when 1 is subtracted from the numerator and it becomes $\frac{1}{4}$ when 8 is added to its denominator. Find the fraction.

29. Find the roots of the quadratic equation $2x^2 + x - 6 = 0$ by factorization.

30. Find the 31st term of an A.P. whose 11th term is 38 and the 16th term is 73.

Or

Find the sum of the first 15 multiples of 8.

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31. Write all the other trigonometric ratios of $\angle A$ in terms of $\sec A$.
32. Prove that the lengths of tangents drawn from an external point to a circle are equal.

Or

The length of a tangent from a point A at distance 5 cm from the centre of the circle is 4 cm. Find the radius of the circle.

33. Find the area of a quadrant of a circle whose circumference is 22 cm.
34. How many silver coins, 1.75 cm in diameter and of thickness 2 mm, must be melted to form a cuboid of dimensions 5.5 cm \times 10 cm \times 3.5 cm ?

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Section-D

4 each

35. A train travels 360 km at a uniform speed. If the speed had been 5 km/h more, it would have taken 1 hour less for the same journey.

Find the speed of the train.

Or

Find the roots of $4x^2 + 3x + 5 = 0$ by the method of completing the square.

36. The angles of elevation of the top of a tower from two points at a distance of 4 m and 9 m from the base of the tower and in the same straight line with it are complementary. Prove that the height of the tower is 6 m.

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37. Find the area of the quadrilateral whose vertices taken in order, are $(-4, -2)$, $(-3, -5)$, $(3, -2)$ and $(2, 3)$.

Or

If A and B are $(-2, -2)$ and $(2, -4)$, respectively, find the coordinates of P such that $AP = \frac{3}{7} AB$ and P lies on the line segment AB.

38. Prove that the line joining the mid-points of any two sides of a triangle is parallel to the third side.

Or

In an equilateral triangle, prove that three times the square of one side is equal to four times the square of one of its altitudes.

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A-3-Y



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39. Draw a pair of tangents to a circle of radius 5 cm which are inclined to each other at an angle of 60° .
40. If the median of the distribution given below is 28.5, find the values of x and y :

Class Interval	Frequency
0-10	
10-20	x
20-30	20
30-40	15
40-50	y
50-60	5
Total	60

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A-3-X

Roll No.....

Total No. of Questions : 40]

[Total No. of Printed Pages : 15

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9303-X

MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 80

Section-A

1 each

1. The number 3 is :

- (A) an even number
- (B) a composite number
- (C) a prime number
- (D) None of these

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A-3-X



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2. Zeroes of the quadratic polynomial $x^2 - 2x - 8$ are :

(A) 2, -4

(B) 2, 4

(C) -2, -4

(D) None of these

3. 8th term of an A.P. 10, 7, 4, is :

(A) -11

(B) -10

(C) -8

(D) None of these

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A-3-X



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4. Distance between the points (4, 3) and (0, 0) is :

(A) $\sqrt{7}$

(B) 5

(C) 12

(D) None of these

5. If $6x + 3y = C - 3$ and $12x + Cy = C$, has infinitely many solutions, then C is equal to :

(A) 6

(B) 5

(C) 4

(D) None of these

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A-3-X



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6. Circumference of a semi-circle with radius 'r' is :

(A) $2\pi r$

(B) πr

(C) πr^2

(D) None of these

7. How many parallel tangents can a circle have ?

(A) 2

(B) 1

(C) Infinite

(D) None of these

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8. A card is drawn from a pack of 52 cards. What is the probability of getting a heart ?

(A) $\frac{1}{26}$

(B) $\frac{1}{2}$

(C) $\frac{1}{4}$

(D) None of these

9. $1 - \cos^2 30^\circ$ is equal to :

(A) $-\sin^2 30^\circ$

(B) $\sin^2 30^\circ$

(C) $-\sin^2 60^\circ$

(D) None of these

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A-3-X



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Turn Over

10. The product of roots of the quadratic equation $\sqrt{5}x^2 + 3x - 5 = 0$

is :

(A) $\sqrt{5}$

(B) $\frac{1}{\sqrt{5}}$

(C) $-\sqrt{5}$

(D) None of these

11. H.C.F. of two prime numbers is (Fill in the blank)

12. The sum of first n natural numbers is $\frac{n(n+1)}{2}$. (True/False)

Or

The next term of the A.P. $\sqrt{27}, \sqrt{48}, \sqrt{75}, \dots$ is $\sqrt{108}$.

(True/False)

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A-3-X



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13. The value of $\cos \theta$ increases as θ increases. (True/False)

14. All triangles are similar. (isosceles, equilateral)

15. The common point of a tangent to a circle and the circle is called

..... (Fill in the blank)

16. Define Distance Formula.

Or

Define Ordinate of a Point.

17. State Basic Proportionality Theorem.

18. Define Angle of Elevation.

19. What is the probability of sure event ?

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A-3-X



Turn Over

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20. Write the formula for total surface area of hemisphere.

Section-B

2 each

21. Find the H.C.F. of 510 and 92.

22. A drinking glass is in the shape of a frustum of a cone of height 14 cm. The diameters of its two circular ends are 4 cm and 2 cm.

Find the capacity of the glass.

23. Solve the pair of linear equations :

$$x + y = 5$$

$$2x - 3y = 4$$

by elimination method.

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A-3-X



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24. Given $15 \cot A = 8$, find $\sin A$ and $\sec A$.

Or

Evaluate :

$$2 \tan^2 45^\circ + \cos^2 30^\circ - \sin^2 60^\circ$$

25. A bag contains 3 red balls and 5 black balls. A ball is drawn at random from the bag. What is the probability that the ball drawn is :

(i) red ?

(ii) not red ?

26. A class teacher has the following absentee record of 40 students of a class for the whole term. Find the mean number of days a student was absent :

XARJKUT23-9303-X
A-3-X



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Number of Days	Number of Students
0-6	11
6-10	10
10-14	7
14-20	4
20-28	4
28-38	3
38-40	1

Section-C

3 each

27. Obtain all other zeroes of $3x^4 + 6x^3 - 2x^2 - 10x - 5$, if two of

its zeroes are $\sqrt{\frac{5}{3}}$ and $-\sqrt{\frac{5}{3}}$.

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A-3-X



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Or

Find a quadratic polynomial, the sum and product of whose zeroes are $\sqrt{2}$ and $\frac{1}{3}$, respectively.

28. A fraction becomes $\frac{1}{3}$ when 1 is subtracted from the numerator and it becomes $\frac{1}{4}$ when 8 is added to its denominator. Find the fraction.
29. Find the roots of the quadratic equation $2x^2 + x - 6 = 0$ by factorization.
30. Find the 31st term of an A.P. whose 11th term is 38 and the 16th term is 73.

Or

Find the sum of the first 15 multiples of 8.

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A-3-X



Turn Over

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31. Write all the other trigonometric ratios of $\angle A$ in terms of $\sec A$.
32. Prove that the lengths of tangents drawn from an external point to a circle are equal.

Or

The length of a tangent from a point A at distance 5 cm from the centre of the circle is 4 cm. Find the radius of the circle.

33. Find the area of a quadrant of a circle whose circumference is 22 cm.
34. How many silver coins, 1.75 cm in diameter and of thickness 2 mm, must be melted to form a cuboid of dimensions $5.5 \text{ cm} \times 10 \text{ cm} \times 3.5 \text{ cm}$?

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A-3-X



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Section-D

4 each

35. A train travels 360 km at a uniform speed. If the speed had been 5 km/h more, it would have taken 1 hour less for the same journey. Find the speed of the train.

Or

Find the roots of $4x^2 + 3x + 5 = 0$ by the method of completing the square.

36. The angles of elevation of the top of a tower from two points at a distance of 4 m and 9 m from the base of the tower and in the same straight line with it are complementary. Prove that the height of the tower is 6 m.

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A-3-X



Turn Over

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7. Find the area of the quadrilateral whose vertices taken in order, are $(-4, -2)$, $(-3, -5)$, $(3, -2)$ and $(2, 3)$.

Or

If A and B are $(-2, -2)$ and $(2, -4)$, respectively, find the coordinates of P such that $AP = \frac{3}{7}AB$, and P lies on the line segment AB.

38. Prove that the line joining the mid-points of any two sides of a triangle is parallel to the third side.

Or

In an equilateral triangle, prove that three times the square of one side is equal to four times the square of one of its altitudes.

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A-3-X



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39. Draw a pair of tangents to a circle of radius 5 cm which are inclined to each other at an angle of 60° .
40. If the median of the distribution given below is 28.5, find the values of x and y :

Class Interval	Frequency
0-10	5
10-20	x
20-30	20
30-40	15
40-50	y
50-60	5
Total	60

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A-3-X



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A-0-Z

Roll No.....

Total No. of Questions : 17]

[Total No. of Printed Pages : 15

XARJKUT23

9300-Z

ENGLISH

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Reading Comprehension)

1. Read the extract from the poem and answer the questions that follow :

My feet are cold with water seeping through my shoes.

My eyes are heavy with sleep, or is it fever ?

The ground is very slippery, there is no place to stand.

The mind is exhausted, look for some spot to rest.

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Questions :

- (i) What has made the speaker's feet cold ?
- (ii) What does his mind look for ?
- (iii) There is a rhyme scheme in the poem. (True/False)
- (iv) The feet of the poet are wet with water through his shoes. (Fill in the blank)
- (v) Show one image created by the poet in the above lines. 1×5=5

2. Read the following passage and answer the questions that follow :

We who were outlaws not so long ago, have today been given the rare privilege to be host to the nations of the world on our own soil. We thank all our distinguished international guests for having come to take possession with the people of our country of what is, after all, a common victory for justice, for peace, for human dignity.

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We have at last, achieved our political emancipation. We pledge ourselves to liberate all our people from the continuous bondage of poverty, deprivation, suffering, gender and other discrimination."

Questions :

- (i) Who were called outlaws in South Africa ?
- (ii) What pledge did the new government of South Africa take ?
- (iii) Give the antonym of 'Victory'.
- (iv) The establishment of a democratic rule in South Africa has been called for justice, peace and human dignity.

(Fill in the blank)

(v) Under the policy of apartheid all citizens were equal.

(True/False)

1×5=5

Turn Over

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A-0-Z

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3. Read the following passage and answer the questions that follow :

Crops plants and animals created for human consumption using latest molecular biology techniques can generally be termed GM foods or GMO (Genetically Modified Organism). It has been possible to infuse the desired genetic traits such as disease and/or pest resistance and cold/drought tolerance into important crops to get better yield and nutritional content.

Similarly, GM technology is employed on farm animals to improve milk yield and meat quality. Traditionally, the enhancement of desired traits has been undertaken through breeding of plants and animals. The potential benefit arising from the use of GM technology in agriculture is increased food production, ensuring food security for the abounding millions.

Questions :

(i) What does GMO stand for ?

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A-0-Z

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(ii) Why is GM technology employed on farm animals ?

(iii) The potential benefit that arises from the use of GM technology in agriculture is food production.

(Fill in the blank)

(iv) GM plants cannot resist the diseases caused by viruses, fungi etc.

(True/False)

(v) Give the suitable title to the passage.

1×5=5

Section-B

(Grammar)

4. Insert appropriate modals (given below) in the following sentences :

should, would, may, can

(i) I told him that I come.

(ii) I lift this box.

1×2=2

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A-0-Z

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Turn Over

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5. Insert suitable articles in the blank :

(i) He is boy who beat my son.

(ii) I have got idea.

1×2=2

6. Join the following sentences by changing one of them into relative clause :

(i) Manzoor works for a company. It makes shoes.

(ii) I heard some news. The news astonished me.

(iii) Arif is always idle. He was punished.

1×3=3

7. Change the narration :

(i) She asked me if I knew her.

(ii) The teacher said, "The sun is a star."

(iii) He said, "Maira is singing."

1×3=3

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A-0-Z

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8. Use appropriate articles, tenses, spellings etc. wherever necessary to edit the passage given below :

Mrs. Bannet came to know of her new neighbour.

Mrs. Bennet have three daughters and (1)

is very serious about her marriage. (2)

She want to get them married as soon (3)

as possible. She comes to knowing that a (4)

rich young man, named Mr. Bingley have (5)

come in the neighbourhood. 1×5=5

Section-C

(Writing Skills)

9. Complete the dialogue given below :

Bookseller : Do you (a) ? ✓

Sufia : No, I do not want to buy a book.

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A-0-Z

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Turn Over

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Bookseller : What (b) them ?

Sufia : I want only to change this book.

Bookseller : When did (c) ?

Sufia : (d) yesterday evening.

Bookseller : Who (e) to you ?

Sufia : Your salesman (f) 1/2x6=3

10. ✓ Your school is organising a debate on 'Pollution and its Hazards'.

Being the incharge of the school debating society, write a notice

informing the students about the same and inviting the names of the

students interested to participate. Put the notice in the box. 3

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A-0-Z

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11. Mr. M.A. Khan, Principal, Crescent Public School, asks his assistant to draft a message for the Vice Principal and the class teachers of classes X, XI, XII to attend a meeting to discuss the planning for two day excursion to Pahalgam during Summer Vacation. Draft the message.

4

12. Do any *one* of the following :

(i) You are Afzal, the librarian of ABC Public School, Srinagar.

Write a letter to 'The Unique Books Co., New Delhi', complaining about the poor quality of books supplied to your library.

(ii) Write a letter to your father inviting him on the Annual

Function of your school.

5

XARJKUT23—9300—Z
A-0-Z



Turn Over

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13. Do any *one* of the following (80-100 words) :

(i) Using the ideas given below, write a paragraph on 'The Importance of Discipline in Life.'

- *Discipline* : Basis of whole universe, in nature is governed by some laws for harmony.
- *Why needed* : for the happiness and welfare of all, strength of an individual as well as of a nation, helps in personal and national prosperity and growth.

(ii) Arif has to take part in a speech competition on the topic 'Stop Crowding Pahalgam'. Using the hints given below, write a speech.

XARJKUT23—9300—2
A-0-Z



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- Deterioration in civic amenities. Pollution levels increasing everywhere. Overcrowding in streets, buses, markets. Suggest some practical solutions.

5

Section-D

(Literature)

14. Read the extracts of the poems carefully and do any *three* of the following (20-30 words) :

- (i) Lord ! You are my hope and trust,

Lead me to the way of truth :

How long shall I dwell in ignorance!

Pour me the nectar of knowledge.

Lend ear to my wailing and pleas,

cure me of ills and pains;

- Identify the metaphors used in the above lines.

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Turn Over

(ii) Now is the globe shrunk tight

Round the mouse's dulled wintering heart.

Weasel and crow, as if moulded in brass,

Move through an outer darkness.

- 'Weasel and crow, as if moulded in brass.' Explain briefly.

(iii) I looked again at her, worn, pale, <https://www.jkboseonline.com>

As a late winter's moon and felt that old

familiar ache, my childhood fear, but all

I said was, see you soon, Amma.

- What childhood fears do you think the poet is referring to in

the above lines ?

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A-0-Z

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(iv) Mouth like a fireplace, chimney for a nose

And realio, trulio daggers on his toes.

Belinda was as brave as a barrel full of bears,

And Ink and Blink chased lions down the stairs,

Mustard was as brave as a tiger in a rage.

- Pick out the similes from the above lines.

(v) So shall I take

My last dear fuel of life to heap on my soul

And kindle my will to a flame that shall consume

Their dross of indifference, and take the toll

Of their insults in punishments ? – I will not –

- 'Take the toll of their insults in punishments.' Elaborate. 2×3=6

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A-0-Z

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15. Do any *four* of the following (40–60 words) :

(i) What was the curious episode that took place in the clergyman's study/house ?

(ii) Anny says teachers are most unpredictable. Is Mr. Kessing impredictable ? How ?

(iii) " 'I never want this to happen again' he told his father. 'Ever'." Who says it and why ?

(iv) What condition does Shylock put forth if the debt is not paid in time ?

(v) Why is May 10 'autumn day' in South Africa ?

(vi) Why does Mrs. Bennet think that Mrs. Long is selfish ? $3 \times 4 = 12$

16. Do any *one* of the following (80–100 words) :

(i) Give a detailed description of the second quarrel in the play 'The Proposal' ?

(ii) Discuss the theme of the play 'The Proposal'.

6

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A-0-Z



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17. Do any *one* of the following (80–100 words) :

(i) Draw a character-sketch of Gerasim.

(ii) What effect did the collapse of Rama Rao's business have on him and his family ?

(iii) Who was Bishamber ? Why did Bholi's parents accept his marriage proposal ?

6

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Total No. of Questions : 17]

[Total No. of Printed Pages : 15

XARJKUT23

9300-X

ENGLISH

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Reading Comprehension)

1. Read the extract from the poem and answer the questions that follow :

Thugs with planes, and the Moors,

Thugs with signet rings, and duchesses,

Thugs with black friars blessing

Came through the sky to slaughter children,

And through the streets the blood of the children

Flowed easily, like the blood of children.

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Questions :

- (i) How did the bandits come and who supported them ?
- (ii) Whom did they kill ?
- (iii) Thugs came through the sky to children.

(Fill in the blank)

(iv) There is a rhyme scheme in the poem. (True/False)

(v) Through the streets (Choose the correct one)

- (a) The blood of plants flowed.
- (b) The blood of children flowed.
- (c) Water flowed.

1×5=5

2. Read the following passage and answer the questions that follow :

'I dare say Mr. Bingley will be very glad to see you; and I will send a few lines by you to assure him of my hearty consent to his marrying whichever he chooses of the girls.'

'You take delight in vexing me. You have no compassion on my poor nerves.'

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A-0-X



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'You mistake me, my dear. I have a high respect for your nerves. They are my old friends.'

'Ah! You do not know what I suffer.' 'But I hope you will get over it, and live to see many young men of four thousand a year come into the neighbourhood.'

'It will be no use to us if twenty such should come, since you will not visit them.'

Questions :

- (i) How many daughters Mrs. Bennet had ?
- (ii) Why Mrs. Bennet remained worried all the time ?
- (iii) Mrs. Bennet complains that her husband takes delight in

..... her. (Complete it)

- (iv) Give antonym of 'Pleasure'.

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A-0-X



Turn Over

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(v) 'You have no compassion on my poor nerves.' Who said this ?

(Choose the correct one)

(A) Mr. Bringley

(B) Mrs. Long

(C) Mrs. Bennet

(D) Mr. Bennet 1×5=5

3. Read the following passage and answer the questions that follow :

The Amazon is the world's largest tropical rainforest. It covers an area of nearly 2.8 million square miles, which is nearly the size of the continent of Australia. The Amazon rainforest gets its life from the majestic Amazon river, the world's second largest river, which runs directly through the heart of the region. The rainforest itself is simply the drainage basin for the river and its many tributaries. The vast forest itself consists of four layers, each featuring its own ecosystems and specially adapted plants and animals.

Questions :

(i) Which is the world's second largest river ?

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(ii) The vast rainforest consists of layers, each featuring its own ecosystem. (Fill in the blank)

(iii) The Amazon is the world's largest tropical rainforest. (True/False)

(iv) What is the synonym of 'magestic' ?

(v) Give the suitable title of the passage. 1×5=5

Section-B

(Grammar)

4. Insert appropriate modals (given below) in the following sentences :

will, can, should, ought

(i) you see a parrot on the tree ?

(ii) You to pay your debts. 1×2=2

XARJKUT23—9300—X
A-0-X



Turn Over

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5. Insert suitable articles in the blanks :

(a) His brother is University Professor.

(ii) It is same book which I gave you. 1×2=2

6. Join the following sentences by changing one of them into relative clause :

(i) Here is the doctor. The doctor cured me of malaria.

(ii) He does his best. He should be praised.

(iii) Here is the pencil. You lost it yesterday

1×3=3

7. Change the narration :

(i) She said to me, "Do you know my brother ?"

(ii) The teacher said, "The sun rises in the East."

(iii) He said, "I am unwell."

1×3=3

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8. Use appropriate articles, tenses, spellings etc. wherever necessary to edit the passage given below :

Mrs. Bannet came to know of her new neighbour.

Mrs. Bennet have three daughters and (1)

is very serious about her marriage. (2)

She want to get them married as soon (3)

as possible. She comes to knowing that a (4)

rich young man, named Mr. Bingley have (5)

come in the neighbourhood. 1x5=5

Section-C

(Writing Skills)

9. Complete the dialogue given below :

Bookseller : Do you (a)

Sufia : No, I do not want to buy a book.

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A-0-X



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Bookseller : What (b) them ?

Sufia : I want only to change this book.

Bookseller : When did (c) ?

Sufia : (d) yesterday evening.

Bookseller : Who (e) to you ?

Sufia : Your salesman (f) 1/2 x 6 = 3

10. Your school is organising a debate on 'Pollution and its Hazards'.

Being the incharge of the school debating society, write a notice

informing the students about the same and inviting the names of the

students interested to participate. Put the notice in the box.

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11. Mr. M.A. Khan, Principal, Crescent Public School, asks his assistant to draft a message for the Vice Principal and the class teachers of classes X, XI, XII to attend a meeting to discuss the planning for two day excursion to Pahalgam during Summer Vacation. Draft the message.

4

12. Do any *one* of the following :

(i) You are Afzal, the librarian of ABC Public School, Srinagar.

Write a letter to 'The Unique Books Co., New Delhi', complaining about the poor quality of books supplied to your library.

(ii) Write a letter to your father inviting him on the Annual

Function of your school.

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Turn Over

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13. Do any *one* of the following (80–100 words) :

(i) Using the ideas given below, write a paragraph on 'The Importance of Discipline in Life.' :

- *Discipline* : Basis of whole universe, in nature is governed by some laws for harmony.
- *Why needed* : for the happiness and welfare of all, strength of an individual as well as of a nation, helps in personal and national prosperity and growth.

(ii) Arif has to take part in a speech competition on the topic 'Stop Crowding Pahalgam'. Using the hints given below, write a speech.

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- Deterioration in civic amenities. Pollution levels increasing everywhere. Overcrowding in streets, buses, markets. Suggest some practical solutions.

Section-D

(Literature)

14. Read the extracts of the poems carefully and do any *three* of the following (20–30 words) :

(i) Lord ! You are my hope and trust,

Lead me to the way of truth :

How long shall I dwell in ignorance!

Pour me the nectar of knowledge.

Lend ear to my wailing and pleas,

cure me of ills and pains;

- Identify the metaphors used in the above lines.

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(ii) Now is the globe shrunk tight

Round the mouse's dulled wintering heart.

Weasel and crow, as if moulded in brass,

Move through an outer darkness.

- 'Weasel and crow, as if moulded in brass.' Explain briefly.

(iii) I looked again at her, worn, pale,

As a late winter's moon and felt that old

familiar ache, my childhood fear, but all

I said was, see you soon, Amma.

- What childhood fears do you think the poet is referring to in the above lines ?

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(iv) Mouth like a fireplace, chimney for a nose

And realio, trulio daggers on his toes.

Belinda was as brave as a barrel full of bears,

And Ink and Blink chased lions down the stairs,

Mustard was as brave as a tiger in a rage.

- Pick out the similes from the above lines.

(v) So shall I take <https://www.jkboseonline.com>

My last dear fuel of life to heap on my soul

And kindle my will to a flame that shall consume

Their dross of indifference, and take the toll

Of their insults in punishments ? - I will not -

- 'Take the toll of their insults in punishments.' Elaborate. 2×3=6

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A-0-X



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Turn Over

15. Do any *four* of the following (40–60 words) :

(i) What was the curious episode that took place in the clergyman's study/house ?

(ii) Anny says teachers are most unpredictable. Is Mr. Kessing impredictable ? How ?

(iii) " 'I never want this to happen again' he told his father. 'Ever'." Who says it and why ?

(iv) What condition does Shylock put forth if the debt is not paid in time ?

(v) Why is May 10 'autumn day' in South Africa ?

(vi) Why does Mrs. Bennet think that Mrs. Long is selfish ? $3 \times 4 = 12$

16. Do any *one* of the following (80–100 words) :

(i) Give a detailed description of the second quarrel in the play 'The Proposal' ?

(ii) Discuss the theme of the play 'The Proposal'.

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A-0-X



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17. Do any *one* of the following (80–100 words) :

(i) Draw a character-sketch of Gerasim.

(ii) What effect did the collapse of Rama Rao's business have on him and his family ?

(iii) Who was Bishamber ? Why did Bholi's parents accept his marriage proposal ?

6

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F-4-C

Roll No. 112844D

Total No. of Questions : 17]

[Total No. of Printed Pages : 8 + Map of India

XBAKDF18
17504-C
SOCIAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 100

Section-A
(HISTORY)

(Long Answer Type Questions) 5 each

1. Answer the following questions in about 100-150 words each :

(a) Who were Marinne and Germania ? What was the importance of the way in which they were portrayed ?

Or

How does the history of nationalism in Britain unlike the rest of Europe ?

(b) Why did political leaders differ sharply over the question of separate electorate ?

Or

Why Indians were outraged by the Rowlatt Act ? Explain.

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(2)

(Short Answer Type Questions)

4 each

2. Answer the following questions in about **50-80** words each :

- (a) Explain, how global transfer of disease in the pre-modern world helped in the colonisation of the Americas.

Or

Explain the causes of the Great Depression.

- (b) Explain, what is meant by Proto-industrialisation ?

Or

Why a number of Bombay films were about the lives of migrants ?

- (c) Write a short note on the Vernacular Press Act.

Or

Explain how print Culture assisted the growth of nationalism in India.

(Very Short Answer Type Questions)

2 each

3. Answer the following questions in a few words or sentences :

- (a) Define term Nationalism.
(b) What was the use of Printing Press ?

(Objective Type Questions)

1 each

4. Do as directed :

- (i) When was the First World War fought ?

- (a) 1910 - 1914 (b) 1914 - 1918
(c) 1918 - 1922 (d) 1922 - 1926

(Choose the correct one)

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(ii) The first cotton mill in Bombay came up in 1854/1864.
(Choose the correct one)

(iii) Marco Polo, a great explorer, returned to Italy in
(Fill in the blank)

(iv) Kashibaba, a Kanpur millworker wrote and published "Chhote Aur Bade Ka Sawal." in 1938.
(Write True/False)

Section-B

(POLITICAL SCIENCE)

(Short Answer Type Questions)

4 each

5. Answer the following questions in about 50-80 words each :

(a) What are the different forms of power sharing in the Modern Democracies ? Give an example of each of these.

Or

What are the functions of Local Urban Bodies in J & K ?

(b) How do social divisions affect politics ? Give two examples.

Or

Define Sex Ratio. What is its significance ?

(c) What is Pressure Group ? Give a few examples.

Or

Trace the origin of party system in J & K.

(d) How does democracy produce an accountable, responsive and legitimate government ?



(4)

Or

Explain the term "Redefining Democracy."

(Very Short Answer Type Questions)

6. Answer the following question in a few words or sentences :
What is Majoritarianism ?

2

(Objective Type Questions)

1 each

7. Do as directed :

(i) Blacks have won equal rights, but are still poor, less educated and marginalised. (True/False)

(ii) Who among the following is the founder of the Muslim Conference ?

(a) B.R. Ambedkar

(b) S.M. Abdullah

(c) Moulvi Muhammad Yousuf (d) None of these

(Choose the correct one)

Section-C

(GEOGRAPHY)

(Long Answer Type Questions)

5 each

8. Answer the following questions in about 100-150 words each :

(a) What are the Geo-environmental conditions for the cultivation of Sugarcane in India and also give its production and distribution ?

Or

Forest are very important. Explain.

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(5)

(b) Elaborate in detail the distribution of coal in India.

Or

What are the Geographical, Non-geographical factors which influence the location of an Industry ?

(Short Answer Type Questions)

4 each

9. Answer the following questions in about 50-80 words each :

(a) Define a Resource. Give some examples of Resources.

Or

Difference between the Biotic and Abiotic Resources.

(b) What is meant by Hazard ? Name some man-made and Natural Hazards.

Or

What is meant by Tsunami ? Name some vulnerable area in India.

(c) Write about four measures that control land degradation.

Or

What are multipurpose river projects ? Highlight their merits and demerits.

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(Very Short Answer Type Questions) 2 each

10. Answer the following questions in a few words or sentences :

- (a) Name some commercial crops grown in India.
- (b) Define Manufacturing.

(Objective Type Questions) 1 each

11. Do as directed :

- (i) About 27% area of the country is plateaus which possesses rich reserves of minerals, fossil fuels and forests.

(Write True/False)

- (ii) In the country, there are about 10360/10630 rivers.

(Choose the correct one)

- (iii) Natural vegetation refers to plant life that grows in an area. (Fill in the blank)

- (iv) Where is sapphire found in the area of J & K State ?

- (a) Kargil (Ladakh)
- (b) Paddar (Kishtwar)
- (c) Shopian (Kashmir)

- (d) None of these

(Choose the correct one)

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Section-D

(ECONOMICS)

(Long Answer Type Questions)

12. Answer the following questions in about 100–150 words each :

Identify major agricultural crops grown in J & K. Distribute these crops according to Kharif and Rabi seasons.

Or

Explain the hurdles in economic development of the State of J & K.

6

(Very Short Answer Type Questions)

13. Answer the following questions in a few words or sentences :

Identify places of religious pilgrimage in J & K.

2

(Objective Type Questions)

1 each

14. Do as directed :

(i) The river Jhelum is famous for

(Fill in the blank)

(ii) There are 179 major craft clusters in J & K.

(Write True/False)

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Section-E

(DISASTER MANAGEMENT)

(Very Short Answer Type Questions)

2 each

15. Answer the following questions in a few words or sentences.

- (i) What is ABC formula in disaster management ?
- (ii) Give the role of NGOs in disaster management.

(Objective Type Questions)

16. Strengthening of old buildings is called as

(Fill in the blank) 1

Section-F

(ROAD SAFETY EDUCATION)

17. Answer the following question in about 100-120 words each :

Explain Road Safety Motor Vehicle (Amendment) Bill 2016 in detail.

Or

Who can prevent Accidents ?

5

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Total No. of Questions : 12]

[Total No. of Printed Pages : 15

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URDU

Time : 3 Hours]

[Maximum Marks : 100

(i) تفصیلی جواب طلب سوالات۔

12

12

1۔ درج ذیل اشارات کو دیکھ کر ہر خطے کے بعد کسی ایک حصے کو عنوان کے ساتھ لکھو۔

۱۲

۱۵۰ سے ۲۰۰ الفاظ پر مشتمل ایک متن تحریر کیجئے۔

(الف) جنگلات ہیرسونا آب و ہوا شہر
مختلف پیڑ پودے جڑی بوئیاں جنگلی جانوروں کی پناہ گاہیں
..... سیرگاہیں چراگاہیں شور مچاتے نالے
زمین کے کٹاؤ کی حفاظت لکڑیاں بانس عمارتی

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(2)

لکڑی سرسبزی آبشاریں بجلی گھر محکمہ

جنگلات شجر کاری مہم سرکاری اقدامات لکڑی کا کٹاؤ

..... شیخ نور الدینؒ کا کشمیری کلام زراعت کا دار و مدار

..... ہماری ذمہ داریاں
..... میرا ہمسایہ نہایت شریف آدمی ہمارے

آپسی گھریلو تعلقات ایک دوسرے کے ہاں آنا جانا خواتین

کے باہمی تعلقات غم اور خوشیوں میں آپسی رابطے حالی گزر

بسر باہمی ہمدردیاں اور غم گساریاں بچوں کے آپسی

تعلقات ساتھ ساتھ چلنا پھرنا تعلیم کھیل کود

لڑائی جھگڑوں سے کوسوں دور دکھ سکھ میں ایک دوسرے کے ساتھی

..... ہماری ہمسائیگی باقی لوگوں کے لئے باعثِ رشک

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(3)

(ج) زندگی کا مقصد..... استاد..... ڈاکٹر..... انجینئر.....

نوکری..... تجارت..... استاد..... قوم کا معمار..... رہبر اور

رہنما دل و دماغ..... روشن خیالی..... محنتی..... بے لوث خدمت

..... انسانیت کا درس..... قلیل آمدنی..... مطمئن زندگی.....

سکون اور راحت کی زندگی..... سماج کا بہترین خرد..... معزز پیشہ

..... میرادل پسند.....

۲۔ اپنے اسکول کے سربراہ کے نام اسکول چھوڑنے کا سٹیفکیٹ اجرا کرنے کی درخواست

لکھئے۔

(یا)

اپنے علاقے کے متعلقہ انجینئر کے نام بغیر کٹوتی بجلی فراہم کرنے کے لئے ایک درخواست

تحریر کیجئے۔

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(4)

(یا)

۳۔ اپنے چھوٹے بھائی کے نام ایک خط لکھئے جس میں اسے تعلیم کے ساتھ ساتھ کھیل کود میں

حصہ لینے کی تاکید کی گئی ہو۔

۳۔ درج ذیل اقتباسات میں سے کسی ایک کو سلیس اردو میں لکھئے۔ مضمون اور مصنف کا

حوالہ بھی دیجئے۔

(الف) دور روز بعد میں اپنے لائن میں بیٹھی اخبار پڑھ رہی تھی ایک تصویر

دیکھ کر میری نظریں جم کر رہ گئیں۔ یہ تصویر ایک عورت کی تھی جنہاں اس وقت

پت لہو کے رنگ میں ڈوبی ہوئی۔ اس مردہ جسم کے قریب ہی دو چیزیں

صاف نظر آرہی تھیں۔ گڑیا اور سپید پھولوں کا گلدستہ۔ گڑیا جیسے دلہن بننے سے

پہلے ہی بیوہ ہو چکی تھی اور سپید سپید پھول لہو کا رنگ اپنا چکے تھے۔

(ب) مخالفت سہنے کا ان میں عجیب و غریب مادہ تھا کسا ہی اختلاف ہو وہ

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(5)

صاحب کے ساتھ بہتے رہتے تھے۔ جواب دیتے تھے لیکن حجت نہیں کرتے۔
بعض اوقات نامعقول بات اور کٹھ جھتی پر غصہ آتا تھا، لیکن ضبط سے کام لیتے
تھے۔ ضبط اور اعتدال ان کے بہت بڑے اوصاف تھے اور یہ دو خوبیاں ان
کے کلام میں بھی کامل طور پر پائی جاتی ہیں۔

۴۔ درج ذیل اسباق میں سے کسی ایک سبق کا خلاصہ لکھئے۔

(i) خوشامد۔

(ii) عبرت۔

(یا)

درج ذیل چار سوالات میں سے صرف دو کے جواب لکھئے۔

(i) فرش پر سے پتھر ہٹانے کے بعد شہزادے نے زمین کے اندر کیا دیکھا؟

(ii) پنڈت چندر دھر کو اپنے پیشے کی عظمت کا احسان کس طرح ہوا؟

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(6)

(iii) خوشامدی میں کیا کیا عیب ہوتے ہیں؟

(iv) انسان اور انسانیت کی فلاح کے لئے اقبال کا پیغام کیا ہے؟

۵۔ درج ذیل نثری اصناف میں سے کسی ایک پر نوٹ لکھئے۔

(i) ناول۔

(ii) داستان۔

(iii) خاک۔

۶۔ کسی ایک ادیب کے حالات زندگی یا ادبی خدمات پر روشنی ڈالئے۔

(i) سپایم چند۔

(ii) غلام السیدین۔

(iii) سرسید احمد خان۔

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۷۔ درج ذیل اشعار میں سے صرف تین کی بحوالہ شاعر تشریح کیجئے۔

(الف) پہنچا جو آپ کو تو میں پہنچا خدا تئیں

معلوم اب ہوا کہ بہت میں بھی دور تھا

سخت

(ب) غم و غصہ درخ و اندوہ و حرموں

ہمارے بھی ہیں مہرباں کیسے کیسے

(ج) روک لو گر غلط چلے کوئی

بخش دو گر خطا کرے کوئی

(د) ہوں اس کوچہ کے ہر ذرہ سے آگاہ

ادھر سے مدتوں آیا گیا ہوں

(ہ) آبادی بھی دیکھی ہے ویرانے بھی دیکھے ہیں

جو اُجڑے اور پھر نہ بے دل وہ نرالی بستی ہے

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(8)

(و) یہی بہت ہے کہ مجھ پر تری توجہ ہے

تری نگاہ کا انداز دوسرا ہی سہی

(یا)

دیئے گئے شعری اجزاء میں سے کسی ایک جز کا مفہوم شاعر اور صنف شعر کے حوالے سے لکھئے۔

(الف) تو اے ابر رحمت جو دنیا میں آیا

شرف آدم و آدمیت نے پایا



تو وہ سرو قامت نہیں جس کا سایہ

مگر بن کے رحمت تو عالم پہ چھایا

قدم تیرا جب سے پڑا ہے زمیں پر

زمیں فوق رکھتی ہے عرش بریں پر

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(9)

(ب) یہ کون بے زباں ہے تمہیں کچھ خیال ہے

دُر نجف ہے بانوے بے کس کالال ہے

لومان لوتہمیں قسم ذوالجلال ہے

بشرب کے شاہ زادے کا پہلا سوال ہے

پوتا علی کا تم سے طلب گارا ہے

دے دو کہ اس میں نام ورنی ہے تو اب ہے

۸۔ درج ذیل دو نامکمل اقتباسات کی مدد سے کسی ایک شاعر کے حالات زندگی اور شاعرانہ

خوبیوں پر روشنی ڈالئے۔

(الف) مرزا غالب کے دادا مغل بادشاہی کے میں ایران سے

..... آئے۔ ان کے خاندان کو میں مرتبہ ملا۔ غالب

آگرہ میں پیدا ہوئے غالب کو اردو شاعروں میں

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ہے۔ فارسی شاعری میں بھی بلند ہے۔ غالب نے اردو میں

الگ نکالی۔

(ب) سید محمد شبیب اتر پردیش والد کا سایہ

والدہ سے تعلیم عربی فارسی میں فاضل تفسیر اسناد

طبیبہ کالج لکھنؤ میڈیکل آفیسر کے عہدے پر سبکدوش گیارہ

سال کی عمر شاعری کی ابتداء سلام نعت وغیرہ

..... غزلیں نظمیں رباعیات بچوں کی نظمیں

رسول میر کے کشمیری نغموں کا منظوم ترجمہ شادی سرینگر میں

پینتالیس ہزار اشعار سلاموں کے مجموعے ”آتش چنار“

..... بچوں کے مشاعرے ”حرف فردزاں“۔

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۹۔ مندرجہ ذیل شعری اصناف میں سے کسی ایک پر نوٹ لکھئے۔

(i) نظم۔

(ii) قصیدہ۔

(iii) غزل۔

(ii) مختصراً جہاں طلب سوالات۔

۱۰۔ (الف) دیئے گئے الفاظ کی مدد سے خالی جگہوں کو پُر کر کے عبارت کو مکمل کر کے لکھئے۔

الفاظ: بستری، آگ، پلنگ، صاف، پوریاں، پال
مکان، آرام۔

اقتباس: لوگ میں لت پت چھتیاں لگائے، سروں پر اٹھائے
چلے، کرپا شکر کا قریب تھا۔ وسیع، ستھرا۔ اس نے جاتے ہیں
..... جلوادی۔ بچھوادیئے۔ لوگ سے بیٹھے۔ گھر میں

..... پکنے لگیں۔

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کب) اگر کام کرو گے تو سب کے چہیتے بنو گے مگر تم بے کار بیٹھے ہو اس میں تمہارا

نقصان ہے۔

4

۳

ان جملوں میں "اگر"، "تو"، "مگر" اور "میں" کس قسم کے حروف ہیں؟
حروف ربط حروف تہذیب

کج) درج ذیل جملوں کے خط کشیدہ الفاظ میں سے اسم صفت، اسم فاعل اور

اسم مفعول کی نشاندہی کیجئے۔

(i) ڈھونڈنے والا مراد پاتا ہے۔

(ii) بچہ سو ما ہوا ہے۔

(iii) یہ کپڑا سفید ہے۔

(iv) دو لڑکے باغ میں

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(13)

(د) ترکیب نحوی کیجئے اور جملے کا نام بھی لکھئے۔

رشید کا بھائی ڈاکٹر ہے۔

(یا)

احمد باغ میں کھیلتا ہے۔

۱۱۔ (الف) (i) ”شکست انتظار“ کس میں لکھی ہوئی نظم ہے؟

(ii) اس نظم میں کس طرح کی باہمی کیفیت کی تصویر کشی ہوئی ہے؟

(ب) (i) رباعی کس عربی لفظ سے مشتق ہے اور اس لفظ کے کیا معنی ہیں؟

(ii) نصابی کتاب میں انیس کی رباعیات کی تعداد کتنی ہے؟

(ج) (i) نصاب میں دبیر کا مرثیہ کس عنوان سے شامل ہے؟

(ii) حضرت ام احمدؓ کے نام سے کس سوال کیا؟

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(III) نہایت ہی مختصر جواب طلب سوالات۔

۱۲۔ (الف) دیئے گئے الفاظ میں سے صرف دو کو اس طرح جملوں میں استعمال کیجئے کہ ان کی

۲
۲

تذکیر یا تانیث واضح ہو جائے۔

اداء۔

وفا۔

کافہ

دہی۔

موسم۔

۱۳۔ (ب) دیئے گئے الفاظ میں سے دو کو اس طرح جملوں میں استعمال کیجئے کہ ان کا واحد یا جمع

۲
۲

ہونا واضح ہو جائے۔

امر۔

استاد۔

امور۔

اساتذہ۔

۱۴۔ (ج) دیئے گئے الفاظ میں سے صرف دو کی ضد لکھئے۔

عادل۔

اپنا۔

اندھیرا۔

سفید۔

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(15)

(د) انہی گئے الفاظ میں سے صرف دو کی جمع لکھئے۔

جوہر۔

جوہر۔

فتح۔

(و) درج ذیل الفاظ کو ملانے کے معنی سے جوڑیئے۔ (صرف دو)

الفاظ

مددگار۔

اضطراب۔

اجرا۔

تیرگی۔

بے چینی۔

معین۔

اندھیرا۔

صلب۔

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Total No. of Questions : 12]

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[Total No. of Printed Pages : 15

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URDU

Time : 3 Hours]

[Maximum Marks : 100

(i) تفصیلی جواب طلب سوالات۔

۱۔ درج ذیل اشارات کو غور سے پڑھنے کے بعد کسی ایک حصے کو عنوان کے ساتھ

۱۲

۱۵۰ سے ۲۰۰ الفاظ پر مشتمل ایک مضمون تحریر کیجئے۔

(الف) نور ہے۔ کے بغیر انسان خدا کی

..... جانکاری اپنے حقوق اور فرائض خدا شناسی

..... انسانی ہمدردی ہر چیز کی واقفیت مخلوق پر برتری

..... اپنی حیثیت کی پہچان خدا کی محبت خدا کے بندوں

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(2)

..... سے محبت سماجی اور سیاسی شعور ہر چیز کی پہچان

..... سائنسی کمالات حق اور باطل کی تمیز الہامی احکامات

..... جمالت اندھیرا سرکاری اقدامات بے علم انسانی

..... روپ میں ترقی ہی ترقی خطرات سے کوسوں دور

(ب) کھیل کود صحت مندی جسم پھرتیلا خون کا

..... دورہ نظم و ضبط اچھل کود فٹ بال وغیرہ

..... آکسیجن کی فراہمی پسینہ کا اخراج حکم ماننا بیماریوں

..... سے نجات پٹھے مضبوط خون صاف پانی میں تیرنا

..... چھلانگ لگانا اچھلنا صحت مند جسم صحت مند دماغ

..... مشکلات پر قابو کھیل سے جی چرانا بدن کمزور خوف

..... عزم و ہمت

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(3)

..... بلند حوصلگی ناکامیوں کا تجربہ آگے بڑھنے کا دم خم

..... کھیلوں کی اہمیت

(ج) ڈیبا حیران کن ایجاد خبروں کی رسائی بات

چیت کی سہولیات اور نزدیک کی کوئی قید نہیں باقی

سہولیات ریڈیو کیمرہ شاریات غرض ہر

ایک سہولیت کا انتظام کھڑے بیٹھے عالم کی خبریں مسافتوں کا

مسئلہ مالی فائدے انٹرنیٹ کی سہولیات پیغامات

..... سرکاری کنٹرول پیغامات کی ترسیل مختلف کمپنیاں

..... اربوں کا لین دین موبائل فون مسائل

..... اخراجات اخلاق صحت کے مسائل رحمت کی رحمت

..... رحمت کے

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(4)

۲ اپنے اسکول کے سربراہ کے نام ایک درخواست لکھئے جس میں ایکسکرتشن پر جانے کی اجازت دینے کی عرضی ہو۔

(یا)

اپنی چھٹی سہ ماہی کے نام ایک خط تحریر کیجئے جس میں تعلیم کے ساتھ ساتھ گھریلو کام کاج میں می کا ہاتھ بنانے کی تاکید ہو۔

(یا)

۸

اسٹنٹ انجینئر بجلی کے نام بجلی کی کٹوتی کے خلاف درخواست تحریر کیجئے۔
درج ذیل اقتباسات میں سے کسی ایک کو سلیبس اردو میں لکھئے۔ مضمون اور مصنف کا حوالہ بھی دیجئے۔

۳

۸

(الف) اور کہا کہ دنیا میں محبت اسی واسطے ہوا کرتی ہے کہ ایک سے دوسرے کو فائدہ ہو۔ یہ دو لوگ تئیں میں تم کو دیتی ہوں ایک تو تم اپنی چوٹی میں باندھ لو،

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(5)

دوسری، تمہارے میاں شاید شبہ کریں، نیکی میں سی دو۔ ان کا اثر آج ہی
دیکھ لینا۔ اتنی احتیاط کرنا کہ پاک صاف جگہ میں رہیں۔ اپنے قد کے برابر
ایک کلاؤں مجھ کو ناپ دو، میں تم کو ایک گنڈا بنوادوں گی۔

(ب) جب وہ دونوں چیزیں کسی فرد میں جمع ہو جائیں تو اس میں خود داری،
صداق، دیانت داری اور جرأت کی صفات پیدا ہوتی ہیں اور وہ جماعت
کے رکن کی حیثیت سے ہمدردی، مدد داری اور نیا رخ دلی سے کام لینا سیکھتا
ہے۔ یہ چند پیش پا افتادہ، روزمرہ کی بول چال کے لفظ ہیں لیکن درحقیقت
انہیں میں اچھی زندگی کا بھید پوشیدہ ہے۔ آج دنیا میں جس کے اوپر نیستی کے
بادل منڈلا رہے ہیں اور جس کی بیخ کنی کے لئے اس کے قابل ترین دماغ
اس طرح جدوجہد کر رہے جیسے خود کشی زندگی کی سب سے اعلیٰ قدر ہو۔

۴۔ درج ذیل میں سے کسی ایک سبق کا خلاصہ لکھئے۔

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(i) غمّت۔

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(6)

(ii) آسمان پھول اور لہو۔

(یا)

دیئے گئے چار سوالات میں سے صرف دو کے جواب لکھئے۔

(i) خوشامدی میں کیا کیا عیب ہوتے ہیں؟

(ii) مولانا حالی نے عملی میدان میں کون سی دو یادگار چھوڑی ہیں؟

(iii) ”خودی“ سے کیا مراد ہے؟

(iv) بوڑھے نے لکڑہارے کے گھر آ کر اس سے کیا کہا؟

۵۔ درج ذیل نثری اصناف میں سے کسی ایک پر مختصر نوٹ لکھئے۔

(i) داستان۔

(ii) خاکہ۔

(iii) مقالہ۔

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(7)

۶۔ کسی ایک ادیب کے حالات زندگی یا ادبی خدمات لکھئے۔

(i) ڈپٹی نذیر احمد

(ii) پراسن۔

(iii) عبدالحق۔

۷۔ درج ذیل اشعار میں سے صرف تین کی جملہ اشعار تشریح کیجئے۔

(الف) نہ گو رسکندر نہ ہے قبر دارا

مٹے نامیوں کے نشان کیسے کیسے

(ب) اس روشنی کے شہر میں ظلمت کرے گی راج

مجھ کو یقین تھا نہ تجھے ہی گمان تھا

(ج) آبادی بھی دیکھی ہے، ویرانے بھی دیکھے ہیں

جو اُڑے اور پھر نہ بے دل وہ زالی بستی ہے

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(8)

(د) دل مضطر سے پوچھا اے رونق بزم

میں خود آیا نہیں لایا گیا ہوں

(ه) نہ سنوگر برا کہے کوئی

نہ کہوگر برا کرے کوئی

(و) کس کو معلوم ملے خاک میں منظر کتنے

اپنے اپنے چھپائے ہیں سکندر کتنے

(یا)

دیئے گئے شعری اجزاء میں سے کسی ایک جز کا مفہوم شاعر اور صنف شعر و عنوان کے ساتھ لکھئے۔

(الف) دن کو تو وہ بے چارہ پڑھایا کرے لڑکے

شب خرچ لکھے گھر کا اگر ہندسہ داں ہے

اب کیجئے انصاف، کہ جس کی ہو یہ اوقات

آرام جو چاہے وہ کرے، وقت کہاں ہے

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(9)

(ب) نے مانگنا ہی آتا ہے مجھ کو نہ التجا

منت بھی گر کروں گا تو کیا دہیں گے وہ بھلا

پانی کے واسطے نہ سینس گے عدومری

پہا سے کی جان جائے گی اور آبرومری

۸۔ درج ذیل دو ناموں کی مکتوبات کی مدد سے ایک شاعر کے حالات زندگی اور خصوصیات

کلام تحریر کیجئے۔

(الف) محمد تقی مخلص ۱۷۴۲ء آگرہ والد کا نام

..... لقب والد کا انتقال سید اماں اللہ روزی کی فکر

..... دہلی ماموں آرزو نکھنؤ باقی زندگی آرام

..... سے انتقال بہترین غزل گو غالب کا اعتراف عظیم

شاعر کلیات غزلوں کے علاوہ نکات الشعرا ذکر میر

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..... مثنویاں مرثیے غم روزگار غم عشق خلوص
..... اثر اقلیم غزل کا تاجدار

(ب) سید محمد ۱۹۳۵ء قصبہ زیر پور پانچ سال کی

عمر والد کا سایہ دینی تعلیم والدہ سے عربی فارسی

..... طب کی ڈگری کشمیر میں قیام شادی کشمیر کی

نوبصورتی متاثر طبیہ کالج سری نگر میڈیکل آفیسر

..... سبکدوشی مختلف اصناف سخن مرثیہ سلام وغیرہ

..... غزلیں نظمیں منظوم ترجمے کلام میں متانت

..... سادگی پینتالیس ہزار اشعار سلاموں کے مجموعے

..... نعت و منقبت بچوں کے مشاعرے لہو لہو غزل

..... کشمیر کی نظمیں

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(11)

۹۔ مندرجہ ذیل شعری اصناف میں سے کسی ایک پر نوٹ لکھئے۔

(i) مرثیہ۔

(ii) نعت۔

(iii) غزل۔

مختصر جواب طلب سوالات۔

۱۰۔ (الف) دیئے گئے الفاظ کی مدد سے خالی جگہوں کو پُر کر کے عبارت مکمل کیجئے۔

الفاظ: پیغام ، حیثیت ، دماغ ، دنیا ، بصیرت

کمال ، ملک ، برکت۔

اقتباس: اقبال کو..... کے سامنے اس انسانی..... کے علم بردار کی.....

سے پیش کرنے کی ضرورت ہے۔ اس دل و..... کے انسان، اس

..... کے شاعر، اس..... کے فلسفی آئے دن پیدا نہیں ہوتے، وہ اپنے

..... اور زمانے کے لئے ایک..... ہوتے ہیں۔

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(ب) اگر تم نے میرے کہنے پر عمل کیا ہوتا تو لازماً جیت جاتے۔

۴ اس جملے میں ”اگر“، ”پر“، ”تو“ اور ”لازماً“ کس قسم کے حروف ہیں؟

(ج) درج ذیل جملوں کے خط کشیدہ الفاظ میں سے اسم صفت، اسم فاعل اور

اسم مفعول چن کر لکھو۔

(i) میوہ تو لپکا کھانا چاہئے۔

(ii) لکڑہارا بہت مخفی ہے۔

(iii) آج بہت سی چیزیں مطلوب ہیں۔

(iv) لسیا آدمی آرہا ہے۔

(د) ترکیب نحوی کیجئے اور جملے کا نام بھی لکھئے۔

پانی کافی ٹھنڈا ہے۔

(یا)

۴ سرد ہوائیں چل رہی ہیں۔

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(13)

۱۱۔ (الف) (i) ”جگنو“ کس شاعر کی نظم ہے؟

۳ (ii) ”وحدت میں کثرت“ سے کیا مراد ہے؟

۳ (ب) (i) ”قصیدہ شہر آشوب“ کس شاعر کا لکھا ہوا ہے؟

۳ (ii) ”شہر آشوب“ سے کیا مراد ہے؟

۳ (ج) (i) مرثیے کے اجزائے ترکیبی میں ”چہرہ“ کا حیثیت رکھتا ہے؟

۳ (ii) مشہور مرثیہ نگار مرزا سلامت علی کا تخلص کیا ہے؟

(iii) نہایت ہی مختصر جواب طلب سوالات۔

۱۲۔ (الف) دیئے گئے الفاظ میں سے صرف دو کو اس طرح جملوں میں استعمال کیجئے کہ ان کی

۲ تذکیر یا تانیث واضح ہو جائے۔

بہرہ۔

قلم۔

پتھر۔

زندگی۔

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(14)

(ب) دیئے گئے الفاظ میں سے دو کو اس طرح جملوں میں استعمال کیجئے کہ ان کا واحد یا جمع ہو تا واضح ہو جائے۔

۲

ادویہ۔

ضبط۔

(ج) دیئے گئے الفاظ میں سے صرف دو کی جمع لکھیے۔

۲

بھاری۔

تاریک۔

موہا۔

لائق۔

(د) دیئے گئے الفاظ میں سے صرف دو کی جمع لکھیے۔

۲

فح۔

جوہر۔

دوا۔

بہ۔

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(15)

(ہ) درج ذیل الفاظ کو ان کے معنی سے جوڑیئے۔ (صرف دو)

معنی

الفاظ

قیدی۔

حسرت۔

نگاہ۔

محن۔

ارمان۔

اسیر۔

تکلیفیں۔

دید۔

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Roll No. 1196228

Total No. of Questions : 18]

[Total No. of Printed Pages : 8

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15104-B

SCIENCE

(Physics, Chemistry & Life Science)

Time : 3 Hours]

[Maximum Marks : 84

Section-A

(PHYSICS)

(Long Answer Type Questions)

1. What is Reflection ? State the laws of reflection. Draw the suitable ray diagram. 2,2,2=6

Or

Define magnification of a spherical mirror. State new Cartesian sign conventions of mirrors. (spherical). 2+4=6

(Short Answer Type Questions)

2. What is power of a lens ? Give two uses of concave mirrors. 2+2=4

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(2)

Or

A concave mirror produces three times magnified image of an object placed at 10 cm in front of it. Where is the image located ?

3. Why do stars twinkle and planets do not ?

4

2+2=4

Or

Define Human eye. Draw its labelled diagram.

2+2=4

4. Find the equivalent resistance of resistors connected in series.

4

What is meant by electric power ? Give its units.

4

(Very Short Answer Type Questions)

5. (i) What is bio-mass energy ?

2

- (ii) List the properties of magnetic lines of force (any two).

2

- (iii) What is wind energy ?

1+1=2

(Multiple Choice Questions)

1 each

6. (i) The ciliary muscles of the eye lens help eye to adjust its :

(a) Retina

(b) Focal length

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(3)

- (c) Optic nerve
- (d) Pupil
- (ii) S.I. unit of current is :
- (a) Volt
- (b) Joule
- (c) Watt
- (d) Ampere
- (iii) S.I. unit of potential difference is :
- (a) Ampere
- (b) Volt
- (c) Ohm
- (d) None of the above
- (iv) Nuclear fission is the :
- (a) Breaking of nucleus of higher atoms with release of energy
- (b) Fusion of nucleus of tower atoms
- (c) Fusion of molecules
- (d) None of the above

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Section-B

(CHEMISTRY)

(Long Answer Type Questions)

7. During washing of clothes, Why people use different methods like beating the clothes on a stone, beating with a paddle or scrub with a brush or rock 'n' roll in washing machines ? Is agitation of mixture of soap and water necessary for cleaning of clothes ? $4+2=6$

Draw the electron dot structure of the following :

- (i) Hydrogen molecule
- (ii) Oxygen molecule
- (iii) Nitrogen molecule
- (iv) Methane
- (v) Ethane
- (vi) Carbon dioxide molecule

(No description is required)

$1 \times 6 = 6$

(Short Answer Type Questions)

8. What are ionic compounds ? Why do ionic compounds have high melting points ?

$2+2=4$

Or

Name the methods used for prevention of corrosion. Explain Galvanisation method only.

$2+2=4$

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(5)

9. (a) Name two elements that have two electrons in their outermost shell.

(b) Name two elements with filled outermost shell. 2+2=4

Or

Why do you think noble gases are placed in a separate group ? 4

10. Define decomposition reaction and displacement reaction. Give *one* example of each. 2+2=4

Or

What is a balanced chemical equation ? Why should chemical equations be balanced ? 2+2=4

(Very Short Answer Type Questions) 2 each

11. (i) Write down the reaction between Plaster of Paris and water.

(ii) Name two alkalis and write down their formulae.

(iii) What is pH of a solution ?

(Multiple Choice Questions)

1 each

12. (i) An atom has electronic configuration 2, 8, 1. It is :

(a) Sodium

(b) Oxygen

(c) Chlorine

(d) Fluorine

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(ii) $\text{CH}_4 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O} + \text{Heat and light}$, it is :

- (a) a combustion reaction
- (b) a displacement reaction
- (c) a double displacement reaction
- (d) a decomposition reaction

(iii) Aldehyde group is present in one of the following :

- (a) Propanone
- (b) Acetaldehyde
- (c) Ethanoic acid
- (d) Hydrochloric acid

(iv) Which one of the following does not corrode ?

- (a) Iron
- (b) Copper
- (c) Gold
- (d) None of the above

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Section-C
(LIFE SCIENCE)

(Long Answer Type Questions)

13. What is Nutrition ? What are the differences between autotrophic and heterotrophic nutrition ? 3+3=6

Or

What is the role of saliva in the digestion of food ? What is the function of digestive enzymes ? 3+3=6

(Short Answer Type Questions)

14. What is the difference between a reflex action and walking ? What happens at the synapse between two neurons ? 2+2=4

Or

Design an experiment to demonstrate hydrotropism with requisite diagram. 4

15. What is the importance of DNA copying in reproduction ? 4

Or

Describe the following terms with respect to Asexual reproduction :

- (a) Fission 2+2=4
(b) Fragmentation

16. How do the Mendal's experiments show that trait may be dominant or recessive ? 4

Or

What are the different ways in which individuals with a particular trait may increase in a population ? 4

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(Very Short Answer Type Questions)

2 each

17. (i) What are biodegradable substances ?
(ii) What are Fossils ?
(iii) Name *two* sexually transmitted diseases.

(Multiple Choice Questions)

1 each

18. (i) Indira Gandhi canal has brought greenery to considerable areas of :
(a) Gujarat (b) Rajasthan
(c) Jammu and Kashmir (d) Madhya Pradesh
- (ii) The famous Dal lake of Kashmir is Shrinking and deteriorating due to :
(a) Human greed
(b) Dumping of domestic garbage and sewage
(c) Illegal encroachment
(d) All of the above
- (iii) In evolutionary terms, we have more in common with :
(a) a Chinese school-boy (b) a Chimpanzee
(c) a Spider (d) a Bacterium
- (iv) The embryo gets nutrition from the mother's blood with the help of a special tissue called :
(a) Placenta (b) Villi
(c) Ovary (d) None of these

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