

A-5-Y

Roll No

Total No. of Questions : 40

[Total No. of Printed Pages : 15

10th ARF(SZ)JKUT2024-25

105-Y

SCIENCE

Time : 3 Hours

[Maximum Marks : 80

Section-A

1 each

Note :- Q. Nos. 1 to 18 are very short answer type questions of 1 mark each.

1. Convex mirrors are commonly used as :

(A) Shaving mirror

(B) Rear-view mirror

(C) Headlight mirror

(D) All of these

10th ARF(SZ)JKUT2024-25-105-Y

Turn Over

A-5-Y

2. When a fine beam of sunlight enters a smoke filled room through a small hole, the phenomenon is known as :

(A) Reflection of light

(B) Refraction of light

(C) Tyndall effect

(D) None of these

3. The common refractive defects of vision include Myopia, Hypermatropia and Presbyopia. Choose the correct match :

(A) Myopia—Farsightedness, Hypermatropia—Age related farsightedness, Presbyopia—Shortsightedness

(B) Myopia—Shortsightedness, Hypermatropia—Age related farsightedness, Presbyopia—Farsightedness

(C) Myopia—Shortsightedness, Hypermatropia—Farsightedness, Presbyopia—Age related farsightedness

(D) None of these match is correct

4. For flow of charges in a conducting metallic wire, the electrons move only if there is a difference of electric pressure, called the :

(A) Potential difference

(B) Resistance

(C) Power

(D) Both (A) and (B)

5. Which property of a proton can change while it moves freely in a magnetic field ?

(A) Mass and speed

(B) Speed and velocity

(C) Mass and momentum

(D) Velocity and momentum

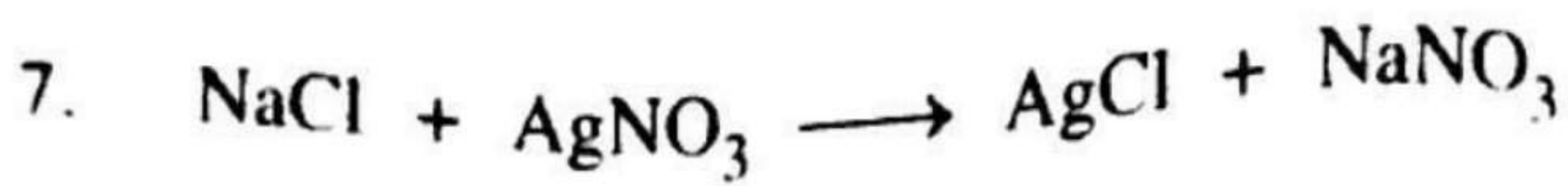
6. A rectangular coil of copper wires is rotated in a magnetic field. The direction of the induced current changes once in each :

(A) Two revolutions

(B) One revolution

(C) Half revolution

(D) One-fourth revolution



The above reaction is a :

- (A) Displacement reaction
 - (B) Double displacement reaction
 - (C) Combination reaction
 - (D) None of these
8. Metals can be beaten into thin sheets. This property is called :
- (A) Metallic luster
 - (B) Malleability
 - (C) Ductility
 - (D) Conductivity
9. Which of the following methods is suitable for preventing an iron frying pan from rusting ?
- (A) Applying grease
 - (B) Applying paint
 - (C) Applying coating of zinc
 - (D) All of these

10. Bee sting contains which acid :

- (A) Ethanoic acid
- (B) Formic acid
- (C) Oxalic acid
- (D) Citric acid

11. Which of the following types of medicine is used for treating acidity in stomach ?

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

12. Autotrophic nutrition involves :

- (A) Intake of simple inorganic material from the environment
- (B) Using external energy source like the sun
- (C) Intake of complex material prepared by other organisms
- (D) Both (A) and (B)

13. Which plant hormone inhibits (stops) growth in plants ?

(A) Cytokinin

(B) Auxin

(C) Absciscic acid

(D) Gibberellins

14. An example of homologous organ is :

(A) Our arm and a dog's fore arm

(B) Our teeth and elephant's tusks

(C) Potato and runners of grass

(D) All of these

15. The use of which chemical has endangered the ozone layer ?

- (A) Pesticides
- (B) CFC's
- (C) Insecticides
- (D) None of these

Note :- From Q. Nos. 16 to 18, two statements (Assertion-A and Reason-R) are given. Select the correct statement/answer to these questions from the codes A, B, C and D as given below :

Codes :

- (A) When A and R are true and R is the correct explanation of A.
- (B) When A and R are true but R is not the correct explanation of A.
- (C) When A is true but R is false.
- (D) When A is false but R is true.

16. **Assertion (A)** : The two characteristic features seen in carbon, that is tetravalency and catenation.

Reason (R) : Carbon atom has four valence electrons in its outermost shell which makes it possible to form large number of compounds.

17. **Assertion (A)** : Pollen grains from the carpel stick to the stigma of stamen.

Reason (R) : The fertilized egg cells grow inside the ovules and become seeds.

18. **Assertion (A)** : Decomposers act as cleaning agents of the environment.

Reason (R) : The decomposers recycle waste material in the hydrosphere.

Section-B

2 each

Note :- There will be *ten* questions in this Section (Q. Nos. **19** to **28**) each of 2 marks.

19. Find the focal length of a lens of power -2.0 D. What type of lens is this ?

20. What do you mean by resistors connected in series ?
21. Why don't two magnetic lines of force intersect each other ?
22. Why should magnesium ribbon be cleaned before burning in air ?
23. Write down the structural formula of :
- (i) Propane
 - (ii) Butane
24. Give an example of each of a metal which :
- (a) is a liquid at room temperature
 - (b) can be easily cut with a knife
25. How is the small intestine designed to absorb digested food ?
26. Why is the use of iodised salt advisable ?
27. How does binary fission differ from multiple fission ?
28. How does the creation of variations in a species promote survival ?

Section-C

3 each

Note :- In this Section from Q. Nos. 29 to 37, there will be *nine* questions with internal choice, each of 3 marks.

29. Draw the three ray diagrams for the correction of hypermatropic eye.

Or

(i) What is the far point and near point of the human eye with normal vision ?

(ii) What is meant by power of accommodation of the eye ?

30. Will current flow more easily through a thick wire or a thin wire of the same material, when connected to the same source ? Give reasons in support of your answer.

Or

The potential difference between the terminals of an electric heater is 60 V when it draws a current of 4 A from the source. What current will the heater draw if the potential difference is increased to 120 V ?

31. (i) What is Right hand thumb rule ?

(ii) Draw magnetic field lines around a bar magnet.

Or

(i) What is the function of an earth wire ?

(ii) When does an electric short circuit occur ?

32. Write a balanced equation with state symbols for the following :

(a) Barium chloride and sodium sulphate in water react to give

insoluble barium sulphate and sodium chloride solution.

(b) Sodium hydroxide solution reacts with hydrochloric acid solution

to produce sodium chloride solution and water.

Or

Describe Displacement reaction with two examples.

33. Write down a note on Aqua Regia.

Or

Write down *three* properties of ionic compounds.

34. What is an alkali ? Write down *two* properties of alkali.
<https://www.jkboseonline.com>

Or

Write down *three* uses of Washing Soda.

35. Write down the names of different parts of human brain. Draw the
labelled diagram of human brain.

(13)

Or

Write down the functions of the following human hormones :

(i) Thyroxin

(ii) Adrenaline

36. What is the importance of DNA copying in Reproduction ?

Or

What are the different methods of contraception ?

37. What is Biological Magnification ? Will the levels of this magnification be different at different levels of the ecosystem ?

Or

Why is the damage to the ozone layer a cause for concern ? What steps are being taken to limit this damage ?

Section-D**5 each**

Note :- In this Section from Q. Nos. 38 to 40, there will be *three* long answer type questions with internal choice, each of 5 marks.

38. An object 5 cm in length is held 25 cm away from a converging lens of focal length 10 cm. Draw the ray diagram and find the position, size and nature of the image formed.

Or

Describe the mirror formula and magnification in spherical mirrors.

39. (i) Explain the mechanism of cleaning action of soaps.
- (ii) Explain the formation of scum when hard water is treated with soap.

Or

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

(15)

40. (i) What is the role of saliva in the digestion of food ?

(ii) How are fats digested in our body ?

Or

(i) How is oxygen and carbon dioxide transported in human body ?

(ii) What would be the consequences of a deficiency of haemoglobin in our bodies ?

A-5-Z

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10th ARF(SZ)JKUT2024-25

**105-Z
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10thARF(SZ)JKUT2024-25-105-Z

A-5-Z

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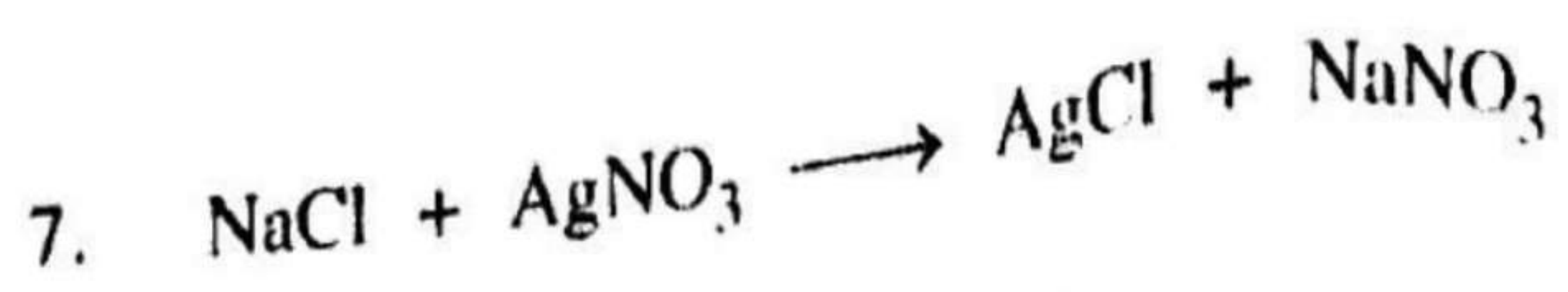
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- (A) Applying grease
 - (B) Applying paint
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 - (D) All of these

10. Name the acid present in tamarind :

- (A) Oxalic acid
- (B) Acetic acid
- (C) Tartaric acid
- (D) Methanoic acid

11. Which of the following types of medicine is used for treating acidity in stomach ?

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A-5-Z

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10thARF(SZ)JKUT2024-25-105-Z

A-5-Z

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Section-B

2 each

Note :- There will be *ten* questions in this Section (Q. Nos. 19 to 28) each of 2 marks.

19. A doctor prescribed a corrective lens of power +1.5 D. Find the focal length of the lens ? Is the prescribed lens a concave or a convex lens ?

20. What do you mean by resistors connected in parallel ?
21. List the properties of magnetic lines of force.
22. What is combination reaction ? Give one example.
23. Write down the structural formula of :
- (i) Ethane
 - (ii) Pentane
24. Why is sodium kept immersed in kerosene oil ?
25. Write down the functions of salivary amylase and pepsin.
26. Why are some diabetic patients treated by giving insulin ?
27. Why is vegetative propagation practised for growing same types of plants ?
28. How is the sex of the child determined in human beings ?

Section-C

3 each

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Or

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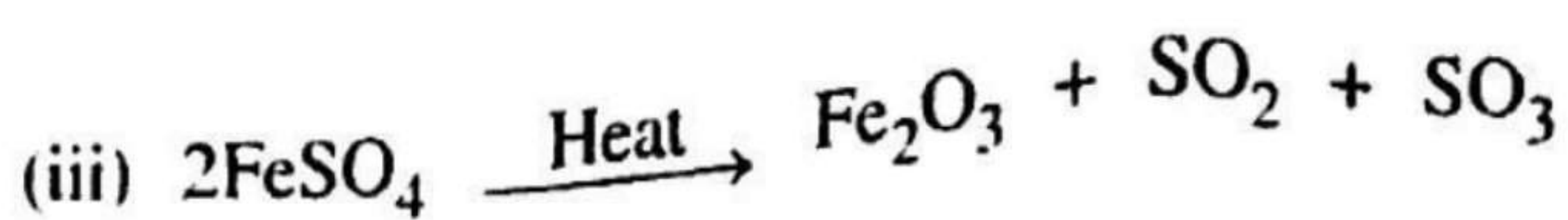
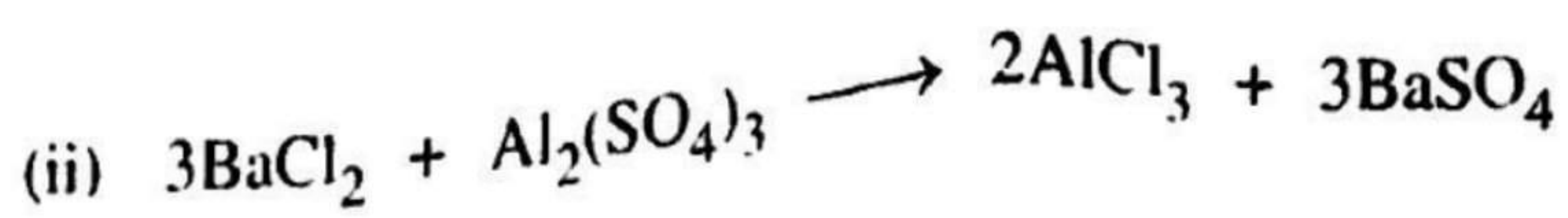
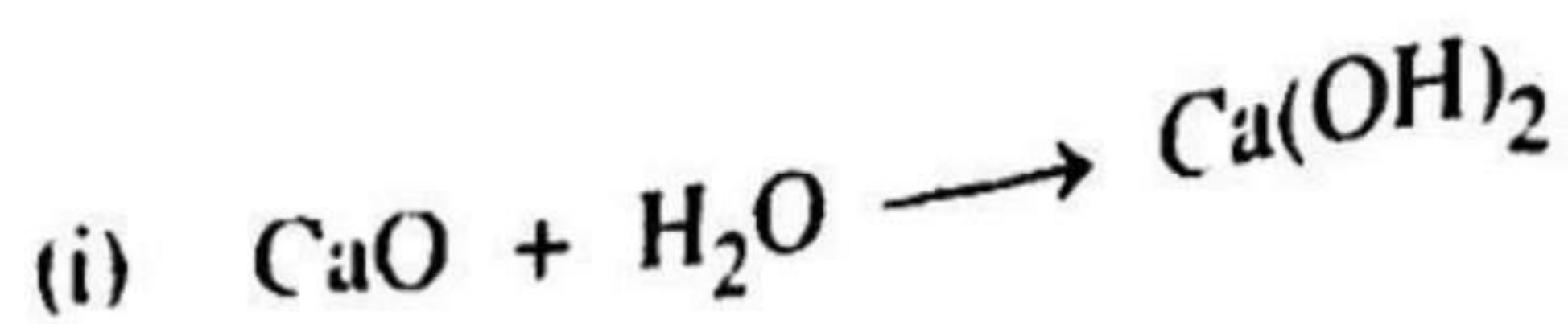
32. Decomposition reactions require energy either in the form of heat or

light or electricity for breaking down the reactants. Write one

example/reaction of each form.

Or

Name the type of chemical reaction in the following equations :



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Or

Write down *three* properties of ionic compounds.

34. What is an alkali ? Write down *two* properties of alkali.

Or

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A-5-Z

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A-4-X

Roll No.....

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10th ARF(SZ)JKUT2024-25

104-X

SOCIAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Objective Type Questions)

1 each

1. Do as directed :

(i) When did the Treaty of Vienna take place ?

(A) 1815 A.D.✓

(B) 1828 A.D.

(C) 1820 A.D.

(D) 1819 A.D.

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A-4-X

Turn Over

(ii) Oudh Kisan Sabha was set up by :

(A) Mahatma Gandhi

(B) Nehru

(C) ✓ Nehru and Baba Ramchandra

(D) Sardar Patel

(iii) Groundnut and rapeseeds are seeds grown in India. (Fill in the blank)

(iv) When the Simon Commission arrived in India ?

(A) 1926

(B) 1927

(C) 1928 //

(D) 1929

(v) Jammu and Kashmir Academy of Art, Culture and Language

was established in A.D. (Fill in the blank)

(vi) Which state is the largest producer of rice ?

(A) Punjab

(B) West Bengal

(C) Rajasthan

(D) Madhya Pradesh

(vii) Which town is the electronic capital of India ?

(A) Mumbai

(B) Kolkata

(C) Bangalore

(D) Pune

(viii) Which country in South Asia never had a democratic government ?

(A) Bhutan

(B) Sri Lanka

(C) India

(D) Myanmar

(ix) A democratic government is responsible to :

(A) President

(B) Prime Minister

(C) Chief Justice of India

(D) The people

(X) Manufacturing is :

- (A) Primary Activity
- (B) Secondary Activity
- (C) Tertiary Activity
- (D) Quinary Activity

(xi) What is the full form of DRABC ?

(xii) Choose which one of the following is **not a natural** disaster :

- (A) Floods
- (B) Earthquake
- (C) Fire
- (D) Landslides

(xiii) The Jammu region is also known as the land of

(A) Temples

(B) Gompas

(C) Scenic beauty

(D) Chotto Kashmir

(xiv) Har Singh was the Maharaja of Jammu and Kashmir at the time

of accession.

(Fill in the blank)

(xv) is the largest oil producing area in India.

(Fill in the blank)

(xvi) IGNOU stands for

(Fill in the blank)

(xvii) How many Union Territories are there in India ?

(A) 7

(B) 8 ✓

(C) 9

(D) 10

(xviii) There are number of Rajya Sabha seats in UT of

Jammu and Kashmir.

(Fill in the blank)

(xix) Who among the following was the Education Minister under

Bakshi's Government in 1955 ?

(A) Rehman Rahi

(B) B.P.L. Bedi

(C) G.M. Sadiq

(D) R.C. Kak

(xx) Capital and are among the requirements for the

location of an industry.

(Fill in the blank)

Section-B

(Short Answer Type Questions)

3 each

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

2. What is meant by the idea of Satyagraha ?

10thARF(SZ)JKUT2024-25—104-X

A-4-X

3. What was the impact of Great Depression on Indian Economy ?

Or

Write some of the inventions that helped the growth of textile industry.

4. Why were the Corn Laws scrapped ? Explain any *three* reasons.

Or

What were the efforts made by Dogra Maharaja Ranbir Singh to organise silk industry in Kashmir ?

5. Explain any *four* characteristics of commercial farming in India.

6. Describe the distribution of Iron Ore in India.

7. A few subjects in various lists of the Indian Constitution are given here. Group them under the Union, State and Concurrent Lists as provided in the table below :

(a) Defence

(b) Police

(c) Agriculture

(d) Education

(e) Banking

(f) Forests

(g) Communications

(h) Trade

(i) Marriages

Union List	
State List	
Concurrent List	

8. Name the eight Regional Parties of India.

9. Caste inequalities are still continuing in India. How ?

10. What are the main employment generating sectors of economy of Jammu and Kashmir ?

11. What are the objectives of first-aid ?

Section-C

(Long Answer Type Questions)

5 each

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

12. Why did nationalist tension emerge in the Balkans ?

13. What are the different forms of power sharing in modern democracies ?

Explain your answer with examples.

14. How have technical and economical development led to more

consumption of resources ?

15. What are main reasons of slow growth of handicrafts and handloom

industry in U.T. of Jammu and Kashmir ?

16. Read the extract and answer the questions given below :

Very cheap small books were brought to markets in 19th century and sold at crossroads, allowing poor people to markets to buy them. Public Libraries were set-up from early Twentieth Century, expanding the access to books. These libraries were located mostly in cities and towns. From the late nineteenth century issues of caste discrimination began to be written about in many printed tracts and essays. Writers like Jyotiba Phule, B.R. Ambedkar and E.V. Ramaswamy wrote powerfully on caste discrimination and their writing were read by people all over India. Millworkers of Bangalore set up libraries to educate themselves, wrote to show the links between caste and class exploitation. All over India, they set up libraries.

Questions :

- (a) Name the writers who wrote on the issues of caste discrimination. 1
- (b) Name the places and purpose of setting up, libraries during early twentieth century. 2
- (c) Why millworkers set up libraries ? Explain. 2

Section-D

(Map Based Question)

17. (a) Show the following in given outline map of India :

- (i) Indira Gandhi International Airport

(15)

(ii) Mumbai Port

(iii) Railway-line from Baramulla to Sangaldan

3

(b) On the outline map of the world, indicate two Federal Countries.

2

A-5-X

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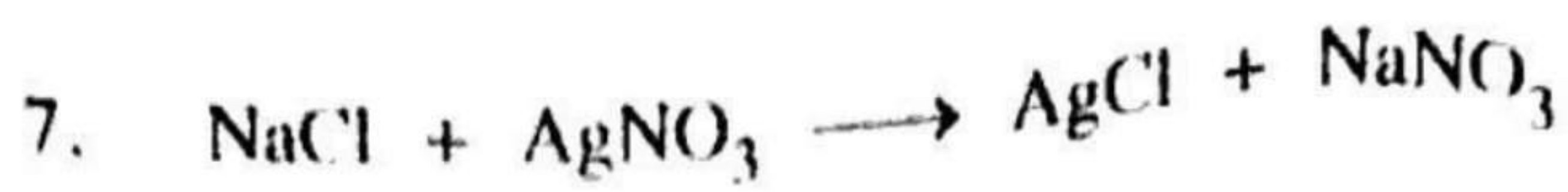
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9. Which of the following methods is suitable for preventing an iron frying pan from rusting ?
- (A) Applying grease
 - (B) Applying paint
 - (C) Applying coating of zinc
 - (D) All of these

10. The leaves of Nettle have stinging hair, which cause painful stings when touched accidentally. This is due to presence of :

- (A) Methanoic acid
- (B) Oxalic acid
- (C) Citric acid
- (D) Carbonic acid

11. Which of the following types of medicine is used for treating acidity in stomach ?

- (A) Antibiotic
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10thARF(SZ)JKUT2024-25-105-X

A-5-X

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- (C) When A is true but R is false.
- (D) When A is false but R is true.

16. **Assertion (A)** : The two characteristic features seen in carbon, that is tetravalency and catenation.

Reason (R) : Carbon atom has four valence electrons in its outermost shell which makes it possible to form large number of compounds.

17. **Assertion (A)** : Pollen grains from the carpel stick to the stigma of stamen.

Reason (R) : The fertilized egg cells grow inside the ovules and become seeds.

18. **Assertion (A)** : Decomposers act as cleaning agents of the environment.

Reason (R) : The decomposers recycle waste material in the hydrosphere.

Section-B

2 each

Note :- There will be *ten* questions in this Section (Q. Nos. 19 to 28) each of 2 marks.

19. A concave mirror produces three times magnified real image of an object placed 10 cms in front of it. Where is the image located ?

10thARF(SZ)JKUT2024-25-105-X

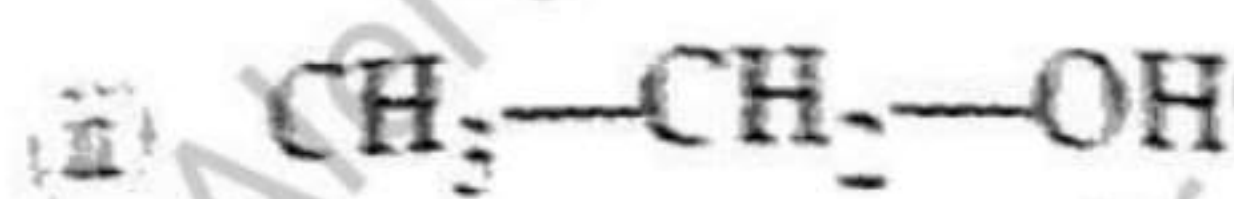
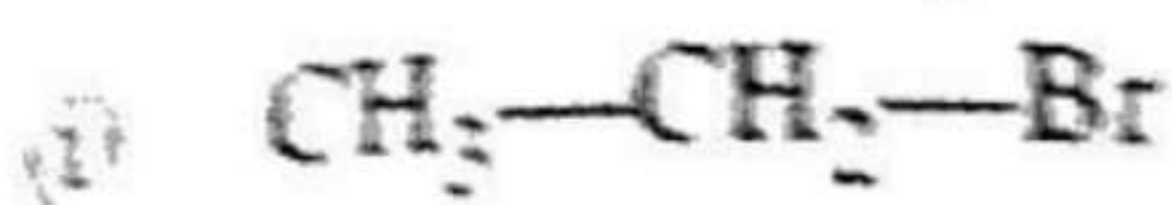
A-5-X

21. State and explain Ohm's law. Define resistance.

22. State the factors on which the strength of magnetic field produced by a current carrying solenoid depend.

23. Why does the colour of copper sulphate solution change when an iron nail is dipped in it.

24. Name the following two compounds of carbon :



25. Explain the meanings of malleable and ductile.

26. Write two differences between autotrophic and heterotrophic nutrition.

27. Write down two differences between reflex action and walking.

28. Why is DNA copying an essential part of the process of reproduction ?

29. Why are the traits acquired during the lifetime of an individual not inherited ?

Section-C**3 each**

Note :- In this Section from Q. Nos. 29 to 37, there will be *nine* questions with internal choice, each of 3 marks.

29. Draw the three ray diagrams for the correction of hypermatropic eye.

Or

(i) What is the far point and near point of the human eye with normal vision ?

(ii) What is meant by power of accommodation of the eye ?

30. Will current flow more easily through a thick wire or a thin wire of the same material, when connected to the same source ? Give reasons in support of your answer.

Or

The potential difference between the terminals of an electric heater is 60 V when it draws a current of 4 A from the source. What current will the heater draw if the potential difference is increased to 120 V ?

11. (i) What is Right hand thumb rule ?

(ii) Draw magnetic field lines around a bar magnet.

Or

(i) What is the function of an earth wire ?

(ii) When does an electric short circuit occur ?

Write the balanced equation for the following reactions :

(a) Hydrogen + Chlorine \longrightarrow Hydrogen chloride

(b) Barium chloride + Aluminium sulphate \longrightarrow Barium sulphate
+ Aluminium chloride

(c) Sodium + Water \longrightarrow Sodium hydroxide + Hydrogen

Or

Describe Oxidation and Reduction reactions with examples.

33. Write down a note on Aqua Regia.

Or

Write down *three* properties of ionic compounds.

34. What is an alkali ? Write down *two* properties of alkali.

Or

Write down *three* uses of Washing Soda.

35. Write down the names of different parts of human brain. Draw the labelled diagram of human brain.

Or

Write down the functions of the following human hormones :

(i) Thyroxin

(ii) Adrenaline

36. What is the importance of DNA copying in Reproduction ?

Or

What are the different methods of contraception ?

37. What is Biological Magnification ? Will the levels of this magnification be different at different levels of the ecosystem ?

Or

Why is the damage to the ozone layer a cause for concern ? What steps are being taken to limit this damage ?

Section-b

5 each

Note :- In this Section from Q. Nos. 38 to 40, there will be *three* long answer type questions with internal choice, each of 5 marks.

38. An object 5 cm in length is held 25 cm away from a converging lens of focal length 10 cm. Draw the ray diagram and find the position, size and nature of the image formed.

Or

Describe the mirror formula and magnification in spherical mirrors.

39. (i) Explain the mechanism of clearing action of soaps.

(ii) Explain the formation of scum when hard water is treated with

soap. <https://www.jkboseonline.com>

Or

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

40. (i) What is the role of saliva in the digestion of food ?

(ii) How are fats digested in our body ?

Or

(i) How is oxygen and carbon dioxide transported in human body ?

(ii) What would be the consequences of a deficiency of haemoglobin in our bodies ?

C-0-X

Roll No.

Total No. of Questions : 16]

[Total No. of Printed Pages : 16

10th ARM(HZ)JKUTL2024-25

400-X

ENGLISH

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Reading Comprehension)

1. Read the following extract and answer the questions that follow :

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

Out of their homes

10th ARM(HZ)JKUTL2024-25—400-X

Turn Over

C-0-X

Questions :

(i) Who is the poet ?

(a) Ted Hughes

(b) W.B. Yeats

(c) Kamala Das

(d) Ved Pal Deep

(ii) She soon put that thought out of her mind and :

(a) smiled

(b) laughed

(c) cried bitterly

(d) looked out of the window

(iii) The person in the car, beside the poetess was :

- (a) Her aunt
- (b) Her daughter
- (c) Her mother
- (d) Her niece

(iv) 'Children spilling out' is a :

- (a) Simile
- (b) Metaphor
- (c) Personification
- (d) Epithet

(v) The poetess realized that her mother was very :

- (a) Young
- (b) Energetic
- (c) Old
- (d) Ill

1×5=5

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

Today's kids can identify with none of the traditional toys. If it's girl, she's busy adding to her Barbie collection, if it's a boy there's Tarzan or Superman or even Sony's Playstation for him. Toy carts have made way for black and gold Ferraris and Lamborghinis. As for the cartwheels and windmills, few kids would know what you are talking of. Many parents feel that children cannot even differentiate between toys that are Indian and foreign. All that matters is that they should be familiar figures or trendy palythings, as seen on television. In a market-driven economy, toy manufactureres are only cashing on this trend. The fallout from this is two-fold : one, the death of India's toy-making tradition, and two, the influence of an alien culture on a child's mind. That is why some social activists have begun campaigning for a ban on what they describe as 'Western

toys'. "Indian toys are not only part of an art tradition but contribute to the well-rounded growth of an individual's personality", explains Vaidehi Thakkar, a child specialist, "Besides, they are environment-friendly since we have a custom of making toys from bio-degradable material".

Clay modellers who used to make dolls, masks, animal forms and tiny carts are no longer seen even in village fairs. Many have turned to farming or are working as coolies in big cities and the few left behind, are tying their hand at pottery and making idols during festival season.

Makers of toys from wood, paper and cloth are also complaining about the gradual extinction of an art form, but they find themselves completely powerless in countering the popularity of machine-made toys.

Questions :

(i) Indian toys help :

- (a) Keep children occupied
- (b) Develop their all round personality
- (c) Children become sensitive to environment degradation
- (d) Children learn to respect their traditions

(ii) Toy carts have been replaced by

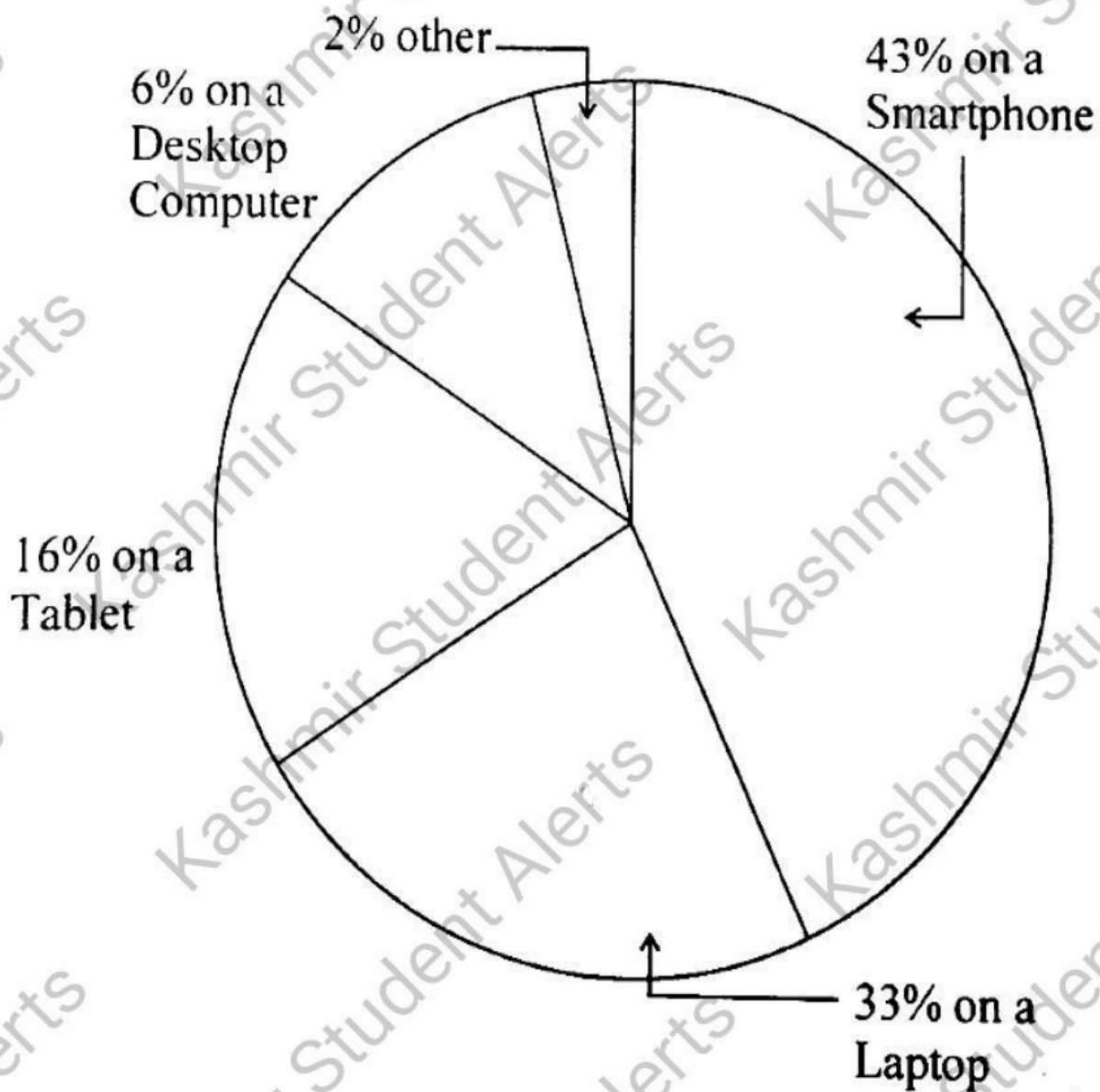
(iii) 'The death of India's toy-making tradition' is one fallout and the second one is

(iv) The Indian toys are environment friendly because they are made from

(v) Give a suitable title.

1×5=5

3. The Pie Chart below illustrates how many internet users aged 16+ prefer to access the internet at home and in other places. Study it and answer the given questions :



Questions :

- (i) What is the Pie Chart about ?
- (ii) How many persons prefer to access internet on smartphones ?
- (iii) of young people navigate internet on laptops.
- (iv) Do you think the Pie Chart truly reflects our youngsters
addiction to internet ?
- (v) What percentage of young persons like to use internet in other
places ? 1×5=5

Section-B

(Grammar)

4. Complete the following sentences by filling in 'a', 'an' or 'the' as
may be suitable :

- (i) Yesterday European called at my office.

(ii) He is not honourable man.

(iii) This is useful book.

(iv) I bought horse, ox and buffalo.

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

5. Rewrite the following passage in indirect form :

As the stranger entered the town, he was met by a policeman, who asked, "Are you a traveller ?"

3

6. There are four errors in the following passage indicated by the number of brackets. Correct the errors and rewrite the passage :

An individual blink (1) around 15 times at (2) a minute. Blinking

is an involuntary action what (3) protects the eyes from dust in a

(4) atmosphere.

$1 \times 4 = 4$

Section-C

(Writing Skills)

7. Complete the following dialogue by filling in the gaps :

Customer : I want some mustard oil.

Shopkeeper : ?

Customer : I need two litres.

Shopkeeper : I'm sorry, in the stock.

Customer : Then, give me a little less.

Shopkeeper : left in the container.

Customer : Give me as much as you have and ?

Shopkeeper : Just ₹ 500 please.

4

8. You are Shreyak. Your new Tennis kit has been stolen from your locker. Write a notice giving the following details :

Brief description of the tennis kit, contact name, class and section.

Also mention a suitable reward for the finder of your tennis kit.

(Not more than **50** words). Put the notice in a box.

3

9. As the monitor of your class, you have to attend an important meeting with other monitors and the teachers after school. Write a message to your parents telling them that you will be late in reaching home (50 words).

2

10. Attempt any *one* of the following (about 150 words) :

(i) You are Anirudh living at Vijaypur Enclave. Write a letter to the editor of a newspaper about a bad piece of road in your locality that is in need of repair.

(ii) You are Anisha. Your family has moved to a new city following your father's job transfer. You have almost settled down in the new place and new school. Write a letter to your best friend telling him/her about the new place, school and classmates.

5

11. Attempt any *one* of the following :

- (i) On the occasion of Children's Day, your school is organising a declamation contest. One of the topics is 'Child Labour — The worst form of child exploitation'. Prepare a powerful speech in about **80–100** words taking ideas from the given hints :

- More than 18 million child labourers in India
- They need play, nutrition and education
- How the society at large is responsible for growing child labour
- Suggest some solutions to the problem
- Make an appeal to join hands to end exploitation of children

- (ii) Write a paragraph on 'Drug : Addiction' taking help from the given clues (80–100 words) :

Drug addiction major concern.

A large percentage youth losing lives.

No drugs without a doctor's advice.

Bad for physical, mental and emotional health
rehabilitation.

12. Following are the hints of a story. Complete it in about 200 words and give a suitable title :

A bee — falls into a tank — a dove flies past — drops a large leaf into the water — the bee climbs on the leaf — flies away — a hunter takes aim at the dove — the bee stings — the dove is saved. 6

Section-D

(Literature)

13. Answer *three* of the following questions :

- (i) Griffin entered the shop of a theatrical company. What did he do there ?

(ii) Do you feel that mother's love is different from father's love ?

Why or why not ?

(iii) What does Anne write in her first essay ?

(iv) What is a sermon ? How is it different from a lecture ?

(v) Narrate any instance of humour from 'Pappachi's Moth'. $3 \times 3 = 9$

14. Answer *three* of the following questions :

(i) Or watch honeybees busy around the hives on a summer

forenoon.

Or animals feeding in the fields,

Or the wonderfulness of the sundown, or of stars shining so

quiet and bright,

Or the exquisite delicate thin curve of the new moon in spring :

● Identify the images used by the poet.

(ii) When you are old and grey and full of sleep,

And nodding by the fire, take down this book.

● What does the phrase 'full of sleep' mean ?

(iii) Write a short note on Hughes' view of nature.

(iv) In childhood, I stood alone in my courtyard

And waves of air brought the sound of cymbals.

We regret that the days gone by don't return

How to call back times past and gone !

● Discuss the poet's regret.

(v) Who are the characters in the poem 'The Tale of Custard the Dragon' ? List them with their pet names.

3×3=9

15. Answer *one* of the following questions :

(i) Draw a character sketch of Matilda.

(ii) What are the major themes of the short story 'Abhilek' ?

(iii) How did the Coachman persuade his master to employ Gerasim ?

1×6=6

16. Answer *one* of the following questions :

(i) Why is Lomov anxious to marry Natalya ? Discuss.

(ii) How does Natalya react when she comes to know what Lomov had come to propose for her hand ?

1×6=6

A-0-Z

Roll No.

Total No. of Questions : 16]

[Total No. of Printed Pages : 16

10th ARF(SZ)JKUT2024-25

100-Z

ENGLISH

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Reading Comprehension)

1. Read the following extract and answer the questions that follow :

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,

Look there, in that smithy;

Its red oven, fierce flames,

The padlocks are already opening their mouths

And each fetter is skirting around.

10th ARF(SZ)JKUT2024-25—100-Z

Turn Over

A-0-Z

Questions :

(i) The poem is addressed to :

- (a) The poet
- (b) His beloved
- (c) The people
- (d) None of these

(ii) The word 'sealed' mean :

- (a) Opened
- (b) Closed
- (c) Straight
- (d) Unlocked

(iii) "The Padlocks are opening their mouths."

What poetic device is used in this line ?

- (a) Simile
- (b) Personification
- (c) Metaphor
- (d) None of these

(iv) The speaker in the poem is :

- (a) An oldman
- (b) The poet
- (c) A boy
- (d) The devil

(v) What does the poet mean by :

"Speak up, for your lips are not sealed

And your words are still your own"

(Answer in **one** or **two** sentences)

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

Hobbies help us to grow as a person. The best way to have a new hobby is to try something new. All of us are unique, and this is the reason why our hobbies and interests are different. Once we find an activity we are passionate about, we can explore that activity more. when you get hooked, you will realize that your hobby has become an integral part of your life. Having a hobby that we enjoy brings us joy and refreshes us. Hobbies help us to manage our leisure and unplanned time more productively. It also affords you the opportunity to learn new skills in your work. But these are not the only benefit of having a hobby.

It feels great to be skilled and good at something, doesn't it ? And this is what that makes you confident. It can take some time to develop your hobby so that you may be able to tell that you are skilled. But the journey of experiencing your hobby is very rewarding in itself. With the exposure to different types of activities these days, it doesn't matter which activity you choose. Whether you are pursuing a craft, sports, puzzles or skill development. Your hobby should be a diversion and a passion.

Hobbies give you an opportunity to enhance your life. Hobbies allow you to de-stress yourself while remaining mentally productive.

Having hobbies promotes better health and may lower the risk of having high blood pressure. Enjoying a few hours of your hobby a week can also reduce the risk of depression and dementia. Hobbies refocus your mind onto something that you enjoy doing. Hobbies that include physical activities creates chemical changes in your body that help to reduce stress.

Hobbies may provide an opportunity for you to socialize with people and that can be an additional benefit for your over-all well-being. You can connect with people who enjoy doing the same things that you do. You can meet new people, discuss your hobby and get connected to a bigger circle that may even help you turn your hobby into your profession. The internet provides numerous groups and forums to connect with people that enjoy doing the same things that you want to do.

Some hobbies require creativity and if you develop creativity through your hobby, it can be beneficial. Creativity can help you experience new things at school and work. The skill of being creative is essential in today's world.

10th ARF(SZ) JKUT2024-25—100-Z

A-0-Z

Questions :

- (i) The journey of experiencing a hobby is quite :
- (a) Challenging for a person
 - (b) Rewarding in itself
 - (c) Demanding in itself
 - (d) Inspirational for a person
- (ii) When a person gets hooked on a hobby, he realises that :
- (a) It has become an integral part of his life.
 - (b) It has much more benefits than physical activities.
- (iii) The skill of being is essential in today's world.
- (a) Confident
 - (b) Creative
 - (c) Sociable
 - (d) Opportunistic

(iv) The synonym of 'hooked' is :

- (a) Opposed
- (b) Indifferent
- (c) Willing
- ~~(d)~~ Captivated

(v) Write a suitable 'title' for the above passage.

1×5=5

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

ONU BOOK CENTRE

40% discount for students

Discover a treasure trove of books that will transport you to new worlds and ignite your imagination

(EXPLORE OUR COLLECTION)

- Story books for children
- Fiction and non-fiction books
- Audiobooks and e-books for digital readers

30% discount on best sellers

"BOOKS ARE THE KEY TO SUCCESS"

For details, reach us at 1985@gmail.com

Questions :

- (i) What is the name of the book shop advertised ?
- (ii) How much rebate is given on best seller books ?
- (iii) The students are offered a discount of
- (iv) What types of books are available at the book shop ?
- (v) Mention the quotation that you can see in the advertisement.

1×5=5

Section-B**(Grammar)**

Fill in the blanks by using correct forms of verbs given in the brackets :

Yesterday, I (go) to meet my uncle who was feeling unwell. The doctor (say) that his sugar was very high and he should take precautions. When I reached there, his friends (be) also present there. I wished them and asked about his health.

5. Rewrite the following sentences in Indirect form :

"I am going to the market", said the boy. "I need to buy some fruits. Do you want to come with me ?"

6. There are four errors indicated by number of brackets in the following passage. Correct the errors and rewrite the corrected passage :

Poor Kisa Gotami now go (1) from house to house. and the people pitied her and said, "Here is a mustard seed; take it !" But when she asked, "Did an (2) son or daughter, a father or mother, die in your famly (3) ?" They answered her, Alas. (4) The living are few, but the dead are many."

Section-C**(Writing Skills)**

7. Two friends Iqbal and Samina have a conversation about their school's library. Following is the beginning of the conversation.

Complete the dialogue in **100-120** words :

Iqbal : Hello Samina ! Nice to see you. How are you ?

Samina : I am fine. Thank you. Has your school got a library ?

Iqbal : Yes

4

8. Sageera of Class X had passed her annual examination. Her books are in good condition. She wants to sell them at reduced price. Write a notice on her behalf giving all necessary details in not more than **50** words to be put on the notice board. Put the words in a box. 3

9. You are Azmat and had an appointment with your friend Bharti to visit an exhibition at 6:00 P.M. but you are held up by your mother to help prepare food for unexpected guests. Draft a message to be sent to Bharti giving your excuse for not keeping the appointment, in not more than **50** words. Put the message in a box. 2

Turn Over

10. Attempt any *one* of the following (about **150** words) :

Write a letter to your father, describing your life at school, your classmates and your little room in the boarding-house.

Or

Write a letter to the Deputy Commissioner of your area drawing his attention to the problems faced by the patients in civil hospital. **5**

11. Attempt any *one* of the following :

(i) Taking help from the clues given below, write a short paragraph (**80–100** words) on 'The Problem of Corruption'.

- Corruption : A social evil
- Corruption : Widespread
- Leading Country to degradation
- Even high rank officers indulge in it
- Social fabric affected

Or

- (ii) You are Shahid/Shahida. You are disturbed to see large-scale deforestation taking place on the out-skirts of cities in order to build new residential colonies and commercial complexes. Using ideas from the below hints, write an article on 'Dangers of Deforestation' in about (80–100 words).

- Loss of biodiversity
- Soil erosion
- Water cycle disruption
- Climate change
- Threat to livelihood

12. Following are the hints of a story. Complete it in 200–250 words.
Give a suitable title to the story.

Hints : Summer vacation — went out for a picnic near the river
— jovial mood — sang, danced and enjoyed — suggestion
to go boating — hired a boat — weather took a bad turn
— terrified — put on life-jackets and cried for help — a
rescue party saved us — went back home.

Section-D

(Literature)

13. Answer any *three* of the following questions :

- (i) Griffin entered the shop of a theatrical company. What did he do there ?
- (ii) Why does Mrs. Bennet tell her girls that they have an excellent father ?
- (iii) What type of a girl do you find Anne after reading her diary entries ?
- (iv) Would you agree that 'The depths of oppression' create 'heights of character' ? How does Mandela illustrate this ?
- (v) Write down any humorous incidents from 'Pappachi's Moth'.
3×3=9

14. Answer any *three* of the following questions :

- (i) "Weasel and crow as if moulded in brass." Explain the simile used by the poet.

- (ii) Explain : "People may desert me thus but you don't abandon me Lord !"
- (iii) Describe the central idea of the poem 'Snow drop' in your own words.
- (iv) What childhood fear do you think the poet is referring to in the poem 'My Mother at Sixty-Six' ?
- (v) Do you find 'The Tale of Custard the Dragon' a serious or funny poem ? Give reasons in support of your answer. $3 \times 3 = 9$

15. Answer any *one* of the following questions :

- (i) What is Irony ? Bring out the elements of irony in the story 'Dusk'.
- (ii) Comment upon the major themes of the story 'The Necklace'.
- (iii) Compare and contrast the characters of Gerasim and the Coachman. $1 \times 6 = 6$

Turn Over

16. Answer any *one* of the following questions :

- (i) What is so ironic about the proposal in the play, 'The Proposal' ?
- (ii) What do you learn about Natalya from the play, 'The Proposal' ?

Describe in your own words.

1×6=6

C-0-Y

Roll No.

Total No. of Questions : 16]

[Total No. of Printed Pages : 16

10th ARM(HZ)JKUTL2024-25

400-Y

ENGLISH

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Reading Comprehension)

1. Read the following extract and answer the questions that follow :

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

Awaken me with 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.

Forsaken by men am I, and so they call me Mehjoor,

People may desert me thus but you don't abandon me lord !

10th ARM(HZ)JKUTL2024-25—400-Y

C-0-Y

Turn Over

Questions :

(i) Identify the simile in the above lines.

(ii) The synonym of 'forsaken' is :

(a) Abandoned

(b) Accepted

(c) Ill-treated

(d) Beaten

(iii) How does the poet describe his human form ?

(iv) What does the poet fear will wither him ?

(v) The poet has compared himself with :

(a) Dew

(b) Sun

(c) Stars

(d) Flower

1×5=5

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

A friend who went on a trip to Canada came back, very impressed with the courtesy of drivers on the roads there. Like all of us, he was used to chaos on the streets and the absolute disregard for anyone else walking or driving on the street. So he was astonished to see that the minute he put one foot off the pavement, cars on both sides of the road would stop, waiting for him to cross; even if he

like most Indians, did not walk up to the Zebra crossing. The first couple of times it happened, he froze, wondering what he had done to stop traffic. But the cars just waited patiently till he crossed, with no angry honking or anyone putting their heads out of their windows to scream. Later, he got off the pavement a few times, just to see what would happen. And without fail, cars would stop to let him pass, even if he tried to wave them on. He came back, most impressed by the discipline of Canadians, among other things. Unfortunately, discipline is a trait we lack-all of us must have been guilty at some time or the other, of dashing across the street, making the nearest driver slam his brakes in panic.

When discipline is inculcated in people, you see cars stopping at a

red light, even when there's no traffic for miles around.... and

nobody in the west will try to overtake a row of waiting cars and

zip ahead, even if there are no cars coming from the opposite side.

Here, everyone will try to get out of line and cause a jam that'll

delay them further and the honking of horns will make an infernal

racket.

Questions :

(i) The friend was impressed with the of drivers.

(a) Discipline

(b) Courtesy

(c) Patience

(d) Screaming

(ii) The author froze, wondering

- (a) What he had done to stop traffic
- (b) To see the chaos on the streets
- (c) On arguments of drivers
- (d) To see drivers following traffic signals

(iii) The author was impressed by the

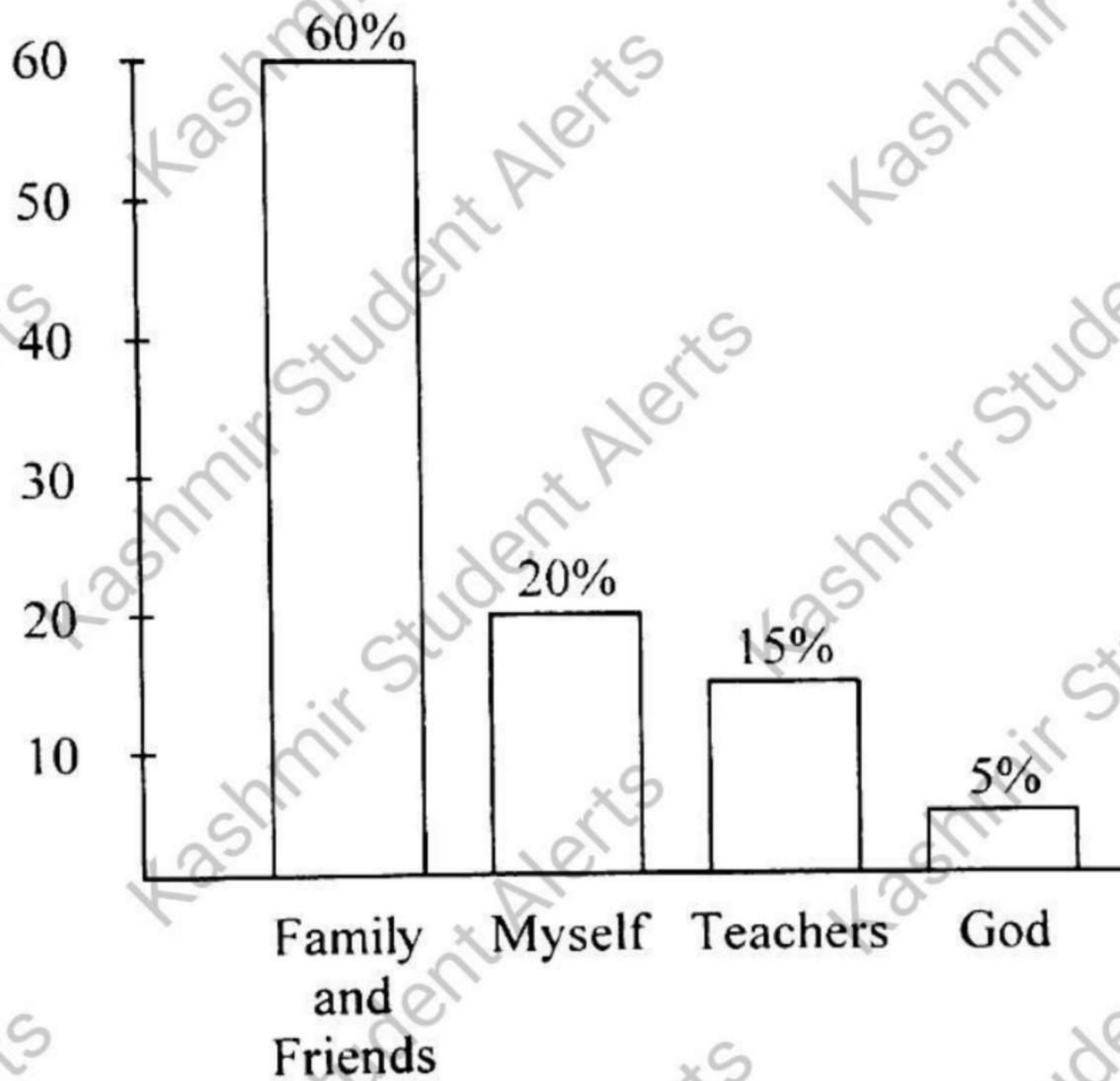
(iv) Which trait we lack in India ?

- (a) Courtesy
- (b) Discipline
- (c) Argument
- (d) Curbing

(v) Give a suitable title to the passage.

1×5=5

3. The bar graph below shows some statistics on role models of children. Study the information carefully and answer the questions that follow :



who has played the largest role in your success.

Questions :

- (i) Who is the role model with least percentage ? 1
- (ii) How many students have family and friends as their role models ? 1
- (iii) What is the total percentage of students whose role models are teachers and God ? 1
- (iv) Comment on the decreasing percentage regarding the role models of the students. 2

Section-B

(Grammar)

4. Choose the best word from the options to complete the sentences :

Karan : You (will/can/should) always read in proper light. Inadequate light (can/must/should) weaken your eyesight.

Amit : My eyesight is six by six. I can also read distant words and sentences.

Karan : (will/must/can) you read this book from here ?

Amit : Sorry this distance is too much. 1×3=3

5. Convert into indirect speech :

She said, "How can I, a girl, who cannot ride or use sword or lance, be of any help ? Rather would I stay at home and spin beside my dear mother ?"

3

6. There are four errors in the following passage, correct them and rewrite the passage :

Rabindra Nath Tagore was a men — (a) of great genius which —

(b) founded the famous Shanti Niketan. He was awarding — (c) the

Nobel Prize for literature on — (d) 1913.

1×4=4

Section-C

(Writing Skills)

7. Complete the following dialogue by filling in the gaps :

Customer : I want some mustard oil.

Shopkeeper : ?

Customer : I need two litres.

Shopkeeper : I'm sorry, in the stock.

Customer : Then, give me a little less.

Shopkeeper : left in the container.

Customer : Give me as much as you have and ?

Shopkeeper : Just ₹ 500 please.

4

8. You are Shreyak. Your new Tennis kit has been stolen from your locker. Write a notice giving the following details :

Brief description of the tennis kit, contact name, class and section.

Also mention a suitable reward for the finder of your tennis kit.

(Not more than **50** words). Put the notice in a box.

3

9. As the monitor of your class, you have to attend an important meeting with other monitors and the teachers after school. Write a message to your parents telling them that you will be late in reaching home (50 words).

2

10. Attempt any *one* of the following : (about 150 words)

(i) You are Anirudh living at Vijaypur Enclave. Write a letter to the editor of a newspaper about a bad piece of road in your locality that is in need of repair.

(ii) You are Anisha. Your family has moved to a new city following your father's job transfer. You have almost settled down in the new place and new school. Write a letter to your best friend telling him/her about the new place, school and classmates.

5

11. Attempt any *one* of the following :

- (i) On the occasion of Children's Day, your school is organising a declamation contest. One of the topics is 'Child Labour — The worst form of child exploitation'. Prepare a powerful speech in about **80–100** words taking ideas from the given hints :

- More than 18 million child labourers in India
- They need play, nutrition and education
- How the society at large is responsible for growing child labour
- Suggest some solutions to the problem
- Make an appeal to join hands to end exploitation of children

- (ii) Write a paragraph on 'Drug : Addiction' taking help from the given clues (80–100 words) :

Drug addiction major concern.

A large percentage youth losing lives.

No drugs without a doctor's advice.

Bad for physical, mental and emotional health
rehabilitation.

5

12. Following are the hints of a story. Complete it in about 200 words and give a suitable title :

A bee — falls into a tank — a dove flies past — drops a large leaf into the water — the bee climbs on the leaf — flies away — a hunter takes aim at the dove — the bee stings — the dove is saved.

6

Section-D

(Literature)

13. Answer *three* of the following questions :

- (i) Griffin entered the shop of a theatrical company. What did he do there ?

(ii) Do you feel that mother's love is different from father's love ?

Why or why not ?

(iii) What does Anne write in her first essay ?

(iv) What is a sermon ? How is it different from a lecture ?

(v) Narrate any instance of humour from 'Pappachi's Moth'. $3 \times 3 = 9$

14. Answer *three* of the following questions :

(i) Or watch honeybees busy around the hives on a summer

forenoon,

Or animals feeding in the fields,

Or the wonderfulness of the sundown, or of stars shining so

quiet and bright,

Or the exquisite delicate thin curve of the new moon in spring :

- Identify the images used by the poet.

(ii) When you are old and grey and full of sleep,

And nodding by the fire, take down this book.

● What does the phrase 'full of sleep' mean ?

(iii) Write a short note on Hughes' view of nature.

(iv) In childhood, I stood alone in my courtyard

And waves of air brought the sound of cymbals.

We regret that the days gone by don't return

How to call back times past and gone !

● Discuss the poet's regret.

(v) Who are the characters in the poem 'The Tale of Custard the

Dragon' ? List them with their pet names.

3×3=9

15. Answer *one* of the following questions :

(i) Draw a character sketch of Matilda.

(ii) What are the major themes of the short story 'Abhilek' ?

(iii) How did the Coachman persuade his master to employ Gerasim ?

1×6=6

16. Answer *one* of the following questions :

(i) Why is Lomov anxious to marry Natalya ? Discuss.

(ii) How does Natalya react when she comes to know what Lomov had come to propose for her hand ?

1×6=6

A-2-Z

Roll No.

Total No. of Questions : 16]

[Total No. of Printed Pages : 16

10th ARF(SZ)JKUT2024-25

102-Z

URDU

Time : 3 Hours]

[Maximum Marks : 80

حصہ ” الف “

۱۔ دی گئی عبارت کو غور سے پڑھنے کے بعد اس کے آخر میں دی گئی خالی جگہوں کو

اسی عبارت سے چن کر مناسب الفاظ سے پُر کیجئے : ۵×۱=۵

ماحولیاتی آلودگی سے مراد گرد و پیش کے ماحول کا گندہ یا آلودہ ہونا

ہے۔ انسان کے گرد و پیش خواہ پانی ہو یا ہوا یا زندگی کے دوسرے

سامان، ان کی غلاظت یا ان کی آلودگی خود زندگی کے لیے خطرہ بن

10th ARF(SZ)JKUT2024-25—102-Z

Turn Over

A-2-Z

جاتا ہے۔ کیونکہ دنیا میں تمام زندہ چیزوں کے لئے براہ راست صاف

پانی، غذا اور ہوا کی ضرورت ہوتی ہے۔ اگر ان چیزوں کو گندہ کر دیا

جائے ان مخلوقات کی زندگی اس کرۂ ارض پر کیسے قائم رہ سکتی ہے۔ جو

خود ایک شفاف ماحول کی زائیدہ ہیں۔

(i) اگر ہمارے گرد و پیش کا ماحول گندہ یا آلودہ ہو تو اسے

----- کہتے ہیں۔

(ii) انسان کے گرد و پیش میں جو چیزیں پائی جاتی ہیں ان میں

سے دو کے نام ----- ہیں۔

(iii) ان کی غلاظت یا ان کی آلودگی خود ----- کے لئے

خطرہ بن جاتی ہے۔

(3)

(iv) تمام زندہ چیزوں کے لئے براہ راست ----- ہوا کی

ضرورت ہے۔

(v) اگر ان چیزوں کو گندہ کر دیا جائے تو اس کرۂ ارض پر زندگی

کیسے ----- ہے۔

۲۔ شعری جُز کے آخر پر پوچھے گئے سوالات کے جوابات میں سے درست

۵×۱=۵

جواب چن لیجئے :

بنی نوع انسان کا غم خوار آیا

وہ تخلیق عالم کا شہکار آیا

وہ نبیوں کا سرتاج سردار آیا

خوش اندام آیا خوش اطوار آیا

آیا تیرے آنے کی آرزو تھی

نگاہوں کو بس تیری ہی جستجو تھی

(i) یہ شعری جُز کس صنف شاعری سے تعلق رکھتا ہے؟

(الف) رباعی

(ب) مرثیہ

(ج) نعت

(د) قصیدہ

(ii) اس شعری جُز کا شاعر کون ہے؟

(الف) اقبال

(ب) رسا جاودانی

(ج) حالی

(د) چکبست

(5)

(iii) بنی نوع انسان کا غم خوار کونسی شخصیت ہے؟

(الف) حضرت محمد ﷺ

(ب) ابو بکر صدیقؓ

(ج) عمر ابن خطابؓ

(د) حضرت علیؓ

(iv) ہمیں حضرت محمد ﷺ کے آنے کی کیا تھی؟

(الف) تمنا

(ب) آرزو

(ج) جستجو

(د) چاہت

(v) خوش اندام کے معنی کیا ہے؟

(الف) خوبصورت

(ب) خوبصورت جسم والا

(ج) خوب رو

(د)؟ خوب سیرت

۳۔ دی گئی عبارت کو غور سے پڑھنے کے بعد اس کے آخر میں پوچھے گئے سوالات

$$5 \times 1 = 5$$

کے مختصر جواب لکھئے :

ماحولیاتی آلودگی آج دنیا میں انسانیت کے لئے ایک بہت بڑا مسئلہ

ہے۔ فضائی آلودگی، آبی آلودگی، صوتی آلودگی اور زمینی آلودگی اس کی

چند شکلیں ہیں۔ حقیقت یہ ہے کہ ماحولیاتی آلودگی میں روز افزوں

اضافے سے انسان خود اپنے لیے زندگی کو تنگ و تاریک بنا رہا ہے۔

آج پوری دنیا میں ماحولیاتی عدم توازن کے نتیجے میں زبردست تباہ کن

اثرات دیکھنے کو مل رہے ہیں۔ ماحولیاتی آلودگی کو کم کرنے کے لیے

پوری دنیا میں بڑے پیمانے پر کوششیں کی جا رہی ہے۔

(i) دنیا میں انسانیت کے لئے بہت بڑا مسئلہ کیا ہے؟

(ii) آلودگی کے اقسام میں سے دو کے نام لکھئے۔

(iii) آلودگی میں روز افزوں اضافے سے انسان زندگی کو کیا بنا

رہا ہے؟

(iv) ماحولیاتی عدم توازن کے نتیجے میں کیا دیکھنے کو ملتا ہے؟

(v) پوری دنیا میں کیا کوششیں کی جا رہی ہیں؟

حصہ ”ب“

۴۔ (الف) درج ذیل الفاظ میں سے صرف تین کو جملوں میں اس طرح استعمال

کیجیے کہ ان کی تذکیر و تانیث ہونا واضح ہو جائے : $3 \times 1 = 3$

(i) وہی

(ii) اخبار

(iii) ہوا

(iv) دولت

(ب) درج ذیل الفاظ میں سے صرف دو کو جملوں میں اس طرح استعمال

کیجیے کہ ان کا واحد یا جمع ہونا واضح ہو جائے : $2 \times 1 = 2$

(i) کاغذات

(ii) سبب

(iii) اوراق

(iv) امر

(9)

درج ذیل حروف میں سے صرف دو کی تعریف مع مثال لکھیے :

(i) حروف تہجین

(ii) حروف نفرین

(iii) حروف ہدا

(iv) حروف جزاء

ہدایات کے مطابق جوابات لکھئے :

(الف) ”گانے والا گا رہا ہے۔“ اس جملے میں گانے والا قواعد

کے لحاظ سے کیا ہے؟

(i) فاعل

(ii) مفعول

(iii) مصدر

(iv) صفت

(ب) زیریں میں کیا قوائے لفظ ہے

کیا ہے

(i) لفظ

(ii) قوائے

(iii) لفظ

(ج) مذکورہ لفظ کی اہم بات ہے جس میں مظلوم قوائے لفظ سے کیا ہے

(i) لفظ

(ii) لفظ

(iii) لفظ

(iv) لفظ

(د) ”احمد نے بازار سے چند سیب لائے۔“ اس جملے میں

”چند“ قواعد کے لحاظ سے کیا ہے؟

(i) فاعل

(ii) مصدر

(iii) صفت عددی

(iv) صفت مقداری

(و) ”ریمس صاحب ریاضی پڑھاتے ہیں۔“ اس جملے میں لفظ

”ریاضی“ قواعد کے لحاظ سے کیا ہے؟

(i) فاعل

(ii) مفعول

(iii) صفت

(iv) فعل

۷۔ درج ذیل محاورات میں سے صرف دو کو جملوں میں استعمال کیجیے :

(i) لکیر کا فقیر

(ii) پھونک پھونک کر قدم رکھنا

(iii) دل ٹوٹنا

۸۔ ترکیب نحوی کیجئے اور جملے کا نام بھی لکھئے :

احمد نیک لڑکا ہے۔

”یا“

بشر کھیت میں کام کر رہا ہے۔

حصہ ”ج“

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

(i) ڈرامہ

(ii) داستان

(iii) قصیدہ

(iv) غزل

۱۔ کسی ایک سبق کا خلاصہ لکھئے :

(i) آسمان پھول اور لہو

(ii) اور مزاج دارلٹ گنی

(iii) بور کے لڈو

۱۱۔ اشعار کی تشریح شاعر کے حوالے سے کیجئے :

(i) وہ کج روش نہ ملا راستی میں مجھ سے کبھو

نہ سیدھی طرح سے اُن نے میرا سلام لیا

”یا“

پہنچا جو آپ کو تو میں پہنچا خدا تئیں

معلوم اب ہوا کہ بہت میں بھی دور تھا

(ii) وہن پر ہیں ان کے گماں کیسے کیسے

کلام آتے ہیں درمیاں کیسے کیسے

”یا“

کون ہے جو نہیں ہے حاجت مند

کس کی حاجت روا کرے کوئی

(iii) نہ تھا میں معتقد اعجازِ مے کا

بڑی مشکل سے منوایا گیا ہوں

”یا“

کتنی بھوکی ہے کتنی پیاسی ہے

زندگی دشتِ کربلا سی ہے

$$۲.۵ + ۲.۵ = ۵$$

۱۲۔ صرف دو سوالات کے جواب لکھئے :

(i) لڑکے کے لئے گڑیا خریدنا کیوں ضروری تھا؟

(ii) زمین سے پتھر ہٹانے کے بعد شہزادے نے کیا دیکھا؟

(iii) گھر آنے کے بعد لکڑہارے اور اس کی بیوی میں تو تو میں

میں کیوں ہوئی؟

$$۲.۵ + ۲.۵ = ۵$$

۱۳۔ صرف دو سوالوں کے جواب لکھئے :

(i) درسی کتاب میں شامل نعت کا عنوان کیا ہے اور اس کا شاعر

کون ہے؟

(ii) الواعزى كى كىا معنى هى اور باغ مراد سى كىا مطلب هى ؟

(iii) همىس اىنى ماتحنون سى كىا طرء ٱش آنا چا هى ؟

۱۴ كسى اكى اءىب یا شاعر كى حالات زنىكى تءرى كىجئ :

(i) ٱرىم چنء

(ii) مولوى عبءالحق

(iii) مىر تقى مىر

(iv) قانى بءاىونى

ءء و ءء

۱۵ اىنى ءوسء كو ءوسى كى امتحن مىں كامىاب هونى ٱر مبارك باءى كا خط لكهئـ

ءء یا ءء

اىنى اسكول كى ٱرنسپل كى نام فىس معاف كروانى كى لئى ءرخواست

لكهئـ

۱۶۔ کسی ایک عنوان پر دوسرے (۲۰۰) الفاظ پر مشتمل مضمون تحریر کیجئے :

(i) سائنس کی کوئی مفید ایجاد

(ii) تعلیم نسواں

(iii) ماحولیاتی آلودگی

(iv) کشمیر کے قدرتی مناظر

A-3-X

Roll No.....

Total No. of Questions : 40]

[Total No. of Printed Pages : 15

10thARF(SZ)JKUT2024-25

103-X

MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 80

Section-A

1 each

1. Find zeroes of the polynomial $4u^2 + 8u$.
2. Define impossible event.
3. 0.1 can be the probability of an event. (True/False)
4. How many tangents can a circle have ?
5. Circumference of a circle with radius ' r ' =
6. $\sqrt{3}$ is a rational number. (True/False)

10thARF(SZ)JKUT2024-25—103-X

A-3-X

Turn Over

7. Sum of a rational and irrational number is :
- (A) a rational
 - (B) a natural
 - (C) an irrational
 - (D) an integer
8. HCF of (12, 15, 21) is
9. The graph of $y = 4x$ is a line parallel to :
- (A) X-axis
 - (B) Y-axis
 - (C) Passing through origin
 - (D) None of these

(3)

10. If the pair of linear equations has unique solution, then the lines representing these equations :

- (A) Coincide
- (B) Intersecting at one point
- (C) Parallel to each other
- (D) None of these

11. 30th term of an A.P. : 10, 7, 4, is :

- (A) 97
- (B) -77
- (C) 77
- (D) -87

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

13. Evaluate :

$$\frac{2 \tan 30^\circ}{1 - \tan^2 30^\circ}$$

14. If $a_n = n^2 + 1$, find a_3 .

15. A quadratic equation $ax^2 + bx + c = 0$, $a \neq 0$ has two distinct roots

if :

(A) $D = 0$

(B) $D < 0$

(C) $D > 0$

(D) None of these

(5)

16. Find the sum of 1st five multiple of 3.

17. Find the distance between the points (2, 3) and (4, 1).

18. Mean of 1st ' n ' natural numbers is :

(A) $\frac{n(n+1)}{2}$

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

(C) $\frac{n^2+1}{2}$

(D) $\frac{n+1}{2}$

19. Find the mode of the given data :

3, 5, 7, 6, 1, 3, 2, 4, 3, 4

20. Volume of a sphere :

(A) πrl

(B) $\pi r^2 h$

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

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

Section-B

2 each

21. Find whether the pair of linear equations

$$2x - 3y = 8$$

and

$$4x - 6y = 9$$

are consistent or inconsistent.

(7)

22. Find the nature of the roots of the quadratic equation :

$$2x^2 - 6x + 3 = 0$$

23. If

$$\sin A = \frac{3}{4}$$

find $\cos A$ and $\tan A$.

24. Find the point on X-axis which is equidistant from $(2, -5)$ and $(-2, 9)$.

Or

Find the value of 'y' for which the distance between the points

$P(2, -3)$ and $Q(10, y)$ is 10 unit.

25. Find the quadratic polynomial whose sum and product of zeroes respectively 1 and 1.
26. Find the area of sector of a circle with radius 6 cm and the angle of the sector is 60° .

Section-C

3 each

27. Find the area of a rhombus whose vertices are (3, 0), (4, 5), (-1, 4) and (-2, -1) taken in an order.
28. Prove that Parallelogram circumscribing a circle is a rhombus.

Or

Prove that in two concentric circles, the chord of the larger circle, which touches the smaller circle, is bisected at the point of contact.

29. The length of the minute hand of a clock is 14 cm. Find the area swept by the minute hand in 5 minutes.

30. Show that $3\sqrt{2}$ is an irrational number.

31. If a line divides any two sides of a triangle in the same ratio, then the line is parallel to the third side.

Or

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

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

32. Find the sum of odd numbers between 0 and 50.

33. One card is drawn from well shuffled deck of 52 cards. Find the probability of getting :

(i) a spade

(ii) a red face card

(iii) a jack.

34. D is a point on side BC of a triangle ABC such that :

$$\angle ADC = \angle BAC$$

Show that $CA^2 = CB.CD$.

(11)

Or

E is a point on the side AD produced of a parallelogram ABCD and

BE intersect CD at F. Show that :

$$\triangle ABE \sim \triangle CFB$$

Section-D

4 each

35. Find the value of K so that the quadratic equation

$$Kx(x - 2) + 6 = 0$$

has equal roots.

Or

The altitude of right triangle is 7 cm less than its base. If the hypotenuse is 13 cm, find the other two sides.

36. A spherical glass vessel has a cylindrical neck 8 cm long, 2 cm in diameter, the diameter of spherical part is 8.5 cm. Find the volume of the vessel.

Or

A medicine capsule is in the shape of a cylinder with two hemispheres stuck to each of its end, the length of the entire capsule is 14 mm.

Find the surface area, if the diameter is 5 mm.

37. 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.

Or

The angle of elevation of the top of building from the foot of tower is 30° and the angle of elevation of the top of tower from the foot of the building is 60° . If the tower is 50 m high, find the height of building.

38. Prove that :

$$\frac{\cos A}{1 + \sin A} + \frac{1 + \sin A}{\cos A} = 2 \sec A$$

39. If AD and PM are the medians of triangles ABC and PQR respectively such that :

$$\Delta ABC \sim \Delta PQR$$

Prove that :

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

Or

Two tangents TP and TQ are drawn to a circle with centre O from an external point T. Prove that :

$$\angle PTQ = 2 \angle OPQ$$

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

A-2-X

Roll No.....

Total No. of Questions : 16]

[Total No. of Printed Pages : 16

10th ARF(SZ)JKUT2024-25

102-X

URDU

Time : 3 Hours]

Maximum Marks : 80

حصہ الف “

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

کو اسی عبارت سے چُن کر مناسب الفاظ سے پُر کیجئے :

5x1=5

ماحولیاتی آلودگی سے مراد گرد و پیش کے ماحول کا گندہ یا آلودہ ہونا

ہے۔ انسان کے گرد و پیش خواہ پانی ہو یا ہوا یا زندگی کے دوسرے

سامان، ان کی غلاظت یا ان کی آلودگی خود زندگی کے لیے خطرہ بن

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Turn Over

A-2-X

جاتا ہے۔ کیونکہ دنیا میں تمام زندہ چیزوں کے لئے براہ راست صاف پانی، غذا اور ہوا کی ضرورت ہوتی ہے۔ اگر ان چیزوں کو گندہ کر دیا جائے ان مخلوقات کی زندگی اس کرۂ ارض پر کیسے قائم رہ سکتی ہے۔ جو خود ایک شفاف ماحول کی زائیدہ ہیں۔

(i) اگر ہمارے گرد و پیش کا ماحول گندہ یا آلودہ ہو تو اسے

----- کہتے ہیں۔

(ii) انسان کے گرد و پیش میں جو چیزیں پائی جاتی ہیں ان میں

سے دو کے نام ----- ہیں۔

(iii) ان کی غلاظت یا ان کی آلودگی خود ----- کے لئے

خطرہ بن جاتی ہے۔

(39)

(iv) تمام زندہ چیزوں کے لئے براہ راست ----- ہوا کی

ضرورت ہے۔

(v) اگر ان چیزوں کو گندہ کر دیا جائے تو اس کو بے ارزش پر زندگی

کیسے ----- ہے۔

۲۔ شعری جُز کے آخر پر پوچھے گئے سوالات کے جوابات میں سے درست جواب

۵×۱=۵

چن لیجئے :

اکثر ریاض کرتے ہیں پھولوں پہ باغباں

ہے دن کو دھوپ رات کو شبیم انہیں گراں

لیکن جو رنگ باغ بدلتا ہے ناگہاں

وہ گل ہزار پردوں میں جاتے ہیں رایگاں

(4)

رہتے تھے جو عزیز انہیں جاں کی طرح

ملنے ہیں دست یاس وہ برگ خزاں کی طرح

(i) اس شعری جُز کا شاعر کون ہے؟

(الف) چکبست

(ب) اقبال

(ج) محمد حسین آزاد

(د) حالی

(ii) یہ شعری جُز کس نظم سے لیا گیا ہے؟

(الف) رامائن

(ب) شکستہ انتظار

(ج) جگنو

(د) اولوالعزمی

(5)

(iii) لفظ ریاض کے کیا معنی ہیں ؟

(الف) محبت

(ب) رغبت

(ج) شجاعت

(د) محنت

(iv) دھوپ اور شبنم کن کے لئے گراں ہیں ؟

(ا) پھولوں کے لئے

(ب) کلیوں کے لئے

(ج) سبزہ کے لئے

(د) پودوں کے لئے

(۷) کون ہزار پردوں میں رہنے کے باوجود بھی رائیگاں ہو جاتے ہیں؟

(الف) پھول

(ب) کلیاں

(ج) سبزہ

(د) پودے

دی گئی عبارت کو غور سے پڑھنے کے بعد اس کے آخر میں پوچھے گئے سوالات

کے مختصر جواب لکھئے :

$$5 \times 1 = 5$$

ماحولیاتی آلودگی آج دنیا میں انسانیت کے لئے ایک بہت بڑا مسئلہ

ہے۔ فضائی آلودگی، آبی آلودگی، صوتی آلودگی اور زمینی آلودگی اس کی

چند شکلیں ہیں۔ حقیقت یہ ہے کہ ماحولیاتی آلودگی میں روز افزوں

اضافے سے انسان خود اپنے لیے زندگی کو تنگ و تاریک بنا رہا ہے۔

آج پوری دنیا میں ماحولیاتی عدم توازن کے نتیجے میں زبردست تباہ کن

اثرات دیکھنے کو مل رہے ہیں۔ ماحولیاتی آلودگی کو کم کرنے کے لیے

پوری دنیا میں بڑے پیمانے پر کوششیں کی جا رہی ہے۔

(i) دنیا میں انسانیت کے لئے بہت بڑا مسئلہ کیا ہے؟

(ii) آلودگی کے اقسام میں سے دو کے نام لکھئے۔

(iii) آلودگی میں روز افزوں اضافے سے انسان زندگی کو کیا بنا

رہا ہے؟

(iv) ماحولیاتی عدم توازن کے نتیجے میں کیا دیکھنے کو ملتا ہے؟

(v) پوری دنیا میں کیا کوششیں کی جا رہی ہیں؟

حصہ ”ب“

۱۔ (الف) درج ذیل الفاظ میں سے صرف تین کو جملوں میں اس طرح استعمال

کیجیے کہ ان کی تذکیر و تانیث ہونا واضح ہو جائے : $3 \times 1 = 3$

(i) وہی

(ii) اخبار

(iii) جہا

(iv) دولت

۲۔ (ب) درج ذیل الفاظ میں سے صرف دو کو جملوں میں اس طرح استعمال

کیجیے کہ ان کا واحد یا جمع ہونا واضح ہو جائے :

(i) کاغذات

(ii) سبب

(iii) اوراق

(iv) امر

$$2 = 2 + 2$$

س۔ درج ذیل حروف میں سے صرف دو کی تعریف مع مثال لکھیے :

(i) حروف تہین

(ii) حروف نفیر

(iii) حروف ہدا

(iv) حروف جزاء

$$5 \times 1 = 5$$

ج۔ ہدایات کے مطابق جوابات لکھیے :

(الف) ”گانے والا گا رہا ہے۔“ اس جملے میں گانے والا قواعد

کے لحاظ سے کیا ہے؟

(i) فاعل

(ii) مفعول

(iii) مصدر

(iv) صفت

(ب) ”رشیڈ نیک ہے۔“ اس جملے میں نیک قواعد کے لحاظ سے

کیا ہے؟

(i) صفت

(ii) فاعل

(iii) اسم معرفہ

(iv) ضمیر

(ج) ”دُعا مظلوم کی رنگ لاتی ہے۔“ اس جملے میں مظلوم

قواعد کے لحاظ سے کیا ہے؟

(i) فاعل

(ii) مفعول

(iii) صفت

(iv) فعل

(د) ”احمد نے بازار سے چند سیب لائے۔“ اس جملے میں

”چند“ قواعد کے لحاظ سے کیا ہے؟

(i) فاعل

(ii) مصدر

(iii) صفت عددی

(iv) صفت مقہاری

(ه) ”رئیس صاحب ریاضی پڑھاتے ہیں۔“ اس جملے میں لفظ

”ریاضی“ قواعد کے لحاظ سے کیا ہے؟

(i) فاعل

(ii) مفعول

(iii) صفت

(iv) فعل

۷۔ درج ذیل محاورات میں سے صرف دو کو جملوں میں استعمال کیجیے :

۲

(i) لکیر کا فقیر

(ii) پھونک پھونک کر قدم رکھنا

(iii) دل ٹوٹنا

۸۔ ترکیب نحوی کیجئے اور جملے کا نام بھی لکھئے :

۴

احمد نیک لڑکا ہے۔

”یا“

بشر کھیت میں کام کر رہا ہے۔

حصہ ”ج“

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

۵

(i) افسانہ

(ii) ناول

(iii) غزل

(iv) نظم

(13)

۱۔ کسی ایک سبق کا خلاصہ لکھئے :

(i) سیر چوتھے درویش کی

(ii) حالی

(iii) خوشامد

۱۱۔ اشعار کی تشریح شاعر کے حوالے سے کیجئے :

(i) وہ کج روش نہ ملا راستی میں مجھ سے کبھو

نہ سیدھی طرح سے اُن نے میرا سلام لیا

”۶“

پہنچا جو آپ کو تو میں پہنچا خدائیں

معلوم اب ہوا کہ بہت میں بھی دور تھا

(ii) دہن پر ہیں ان کے گماں کیسے کیسے

کلام آتے ہیں درمیاں کیسے کیسے

”۷“

کون ہے جو نہیں ہے حاجت مند

کس کی حاجت روا کرے کوئی

(iii) نہ تھا میں معتقد اعجازِ مے کا

بڑی مشکل سے منوایا گیا ہوں

”یا“

کتنی بھوکی ہے کتنی پیاسی ہے

زندگی دشتِ کربلا سی ہے

۱۲۔ صرف دو سوالات کے جواب لکھئے

$$۲.۵ + ۲.۵ = ۵$$

(i) پنڈت چندر دھرا اپنے پیچھے سے بے زار کیوں تھے؟

(ii) محمد عاقل ججن کی چال کیوں نہ سمجھ سکا؟

(iii) قومی اتحاد کے بارے میں مولانا حالی کا کیا خیال تھا؟

۱۳۔ صرف دو سوالوں کے جواب لکھئے :

$$۲.۵ + ۲.۵ = ۵$$

(i) درسی کتاب میں مرثیہ کس عنوان سے شامل ہے اور اس کا

شاعر کون ہے؟

(ii) نظم شکست انتظار میں کس طرح کی ذہنی کیفیت کو بیان کیا گیا ہے؟

(iii) رام چندر جی نے ماں کا حال دیکھ کر آنسو کیوں روک لیے؟

۵۔ کسی ایک ادیب یا شاعر کے حالات زندگی تحریر کیجئے:

(i) پریم چند

(ii) مولوی عبدالحق

(iii) میر تقی میر

(iv) فانی بدایونی

حصہ ”د“

۱۵۔ اپنے دوست کو دسویں کے امتحان میں کامیاب ہونے پر مبارک بادی کا خط لکھئے۔

”یا“

اپنے اسکول کے پرنسپل کے نام فیس معاف کروانے کے لئے درخواست

لکھئے۔

(16)

۱۶۔ کسی ایک عنوان پر دوسو (۲۰۰) الفاظ پر مشتمل مضمون تحریر کیجئے :

(i) سائنس کی کوئی مفید ایجاد

(ii) علم بڑی دولت ہے

(iii) ماحولیاتی آلودگی

(iv) کشمیر کے قدرتی مناظر

A-3-Z

Roll No.....

Total No. of Questions : 40]

[Total No. of Printed Pages : 15

10thARF(SZ)JKUT2024-25

103-Z

MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 80

Section-A

1 each

1. Find zeroes of the polynomial $x^2 - 3$.
2. $P(E) + P(\bar{E}) = \dots\dots\dots$
3. 1.4 can be the probability of an event. (True/False)
4. Number of tangent/tangents can be drawn from a point on the circle
is/are $\dots\dots\dots$
5. Area of a circle with radius 'R' = $\dots\dots\dots$
6. $\sqrt{5}$ is a rational number. (True/False)

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A-3-Z

Turn Over

(2)

7. Which of the following is rational ?

(A) $(2 - \sqrt{3})^2$

(B) $2(\sqrt{2} + \sqrt{3})$

(C) $(2 - \sqrt{3})(2 + \sqrt{3})$

(D) $2\sqrt{7}$

8. HCF of (8, 9, 25) is

9. The graph of $x = -2$ is a line parallel to :

(A) X-axis

(B) Y-axis

(C) Passing through origin

(D) None of these

(3)

10. If the pair of linear equations has infinite many solutions, then the lines representing these equations :

- (A) Coincide
- (B) Intersecting at one point
- (C) Parallel to each other
- (D) None of these

11. 10th term of an A.P. : 2, 7, 12, is

12. If $a_n = 5n^2 + 2$, find a_3 .

13. Write the n th term of an A.P. whose 1st term is ' a ' and common difference is ' d '

(4)

14. The value of $\tan A$ is always less than 1.

(True/False)

15. Evaluate :

$$\frac{2 \tan 30^\circ}{1 + \tan^2 30^\circ}$$

16. A quadratic equation $ax^2 + bx + c = 0$, $a \neq 0$ has no real roots

if :

(A) $D = 0$

(B) $D < 0$

(C) $D > 0$

(D) None of these

(5)

17. Find the distance between the points $(0, 0)$ and $(3, -4)$.

18. If the median and mean of a data is ' m ' and ' n ' respectively, then

mode is :

(A) $2m - 3n$

(B) $2m - n$

(C) $m + n$

(D) $3m - 2n$

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A-3-Z

Turn Over

19. Volume of a cone is :

(A) πrl

(B) $\pi r^2 h$

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

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

20. Find the mode of the given data :

2, 6, 4, 5, 0, 2, 1, 3, 2 and 3.

Section-B

2 each

21. Find whether the pair of linear equations

$$3x + 2y = 5$$

and

$$2x - 3y = 7$$

are consistent or inconsistent.

22. Find the nature of the roots of the quadratic equation :

$$3x^2 - 4\sqrt{3}x + 4 = 0$$

23. If

$$\sin A = \frac{3}{4}$$

find $\cos A$ and $\tan A$.

24. Find the point on X-axis which is equidistant from $(2, -5)$ and $(-2, 9)$.

Or

Find the value of 'y' for which the distance between the points

$P(2, -3)$ and $Q(10, y)$ is 10 unit.

25. Find the quadratic polynomial whose sum and product of zeroes respectively 1 and 1.

26. Find the area of sector of a circle with radius 6 cm and the angle of the sector is 60° .

Section-C

3 each

27. Find the area of a rhombus whose vertices are (3, 0), (4, 5), (-1, 4) and (-2, -1) taken in an order.

28. Prove that Parallelogram circumscribing a circle is a rhombus.

Or

Prove that in two concentric circles, the chord of the larger circle, which touches the smaller circle, is bisected at the point of contact.

(9)

29. The length of the minute hand of a clock is 14 cm. Find the area swept by the minute hand in 5 minutes.

30. Show that $3\sqrt{2}$ is an irrational number.

31. If a line divides any two sides of a triangle in the same ratio, then the line is parallel to the third side.

Or

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

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

32. Find the sum of odd numbers between 0 and 50.

33. One card is drawn from well shuffled deck of 52 cards. Find the probability of getting :

(i) a spade

(ii) a red face card

(iii) a jack.

34. D is a point on side BC of a triangle ABC such that :

$$\angle ADC = \angle BAC$$

Show that $CA^2 = CB.CD$.

(11)

Or

E is a point on the side AD produced of a parallelogram ABCD and

BE intersect CD at F. Show that :

$$\triangle ABE \sim \triangle CFB$$

Section-D

4 each

35. Find the value of K so that the quadratic equation

$$Kx(x - 2) + 6 = 0$$

has equal roots.

(12)

Or

The altitude of right triangle is 7 cm less than its base. If the hypotenuse is 13 cm, find the other two sides.

36. A spherical glass vessel has a cylindrical neck 8 cm long, 2 cm in diameter, the diameter of spherical part is 8.5 cm. Find the volume of the vessel.

Or

A medicine capsule is in the shape of a cylinder with two hemispheres stuck to each of its end, the length of the entire capsule is 14 mm. Find the surface area, if the diameter is 5 mm.

(13)

37. 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.

Or

The angle of elevation of the top of building from the foot of tower is 30° and the angle of elevation of the top of tower from the foot of the building is 60° . If the tower is 50 m high, find the height of building. <https://www.jkboseonline.com>

38. Prove that :

$$\frac{\cos A}{1 + \sin A} + \frac{1 + \sin A}{\cos A} = 2 \sec A$$

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A-3-Z

Turn Over

39. If AD and PM are the medians of triangles ABC and PQR respectively such that :

$$\Delta ABC \sim \Delta PQR$$

Prove that :

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

Or

Two tangents TP and TQ are drawn to a circle with centre O from an external point T. Prove that :

$$\angle PTQ = 2 \angle OPQ$$

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

A-3-Y

Roll No.

Total No. of Questions : 40]

[Total No. of Printed Pages : 15

10th ARF(SZ)JKUT2024-25

103-Y

MATHEMATICS

Time : 3 Hours]

[Maximum Marks : 80

Section-A

1 each

1. Find the zeroes of the polynomial $t^2 - 15$.
2. Define sure event.
3. -0.2 can be the probability of an event. (True/False)
4. Number of tangent/tangents can be drawn from a point outside the circle is/are
5. Circumference of a circle of radius 2 cm =
6. $\sqrt{2}$ is an irrational number. (True/False)

10th ARF(SZ)JKUT2024-25-103-Y

-3-Y

Turn Over

7. $(6 + 5\sqrt{3}) - (4 - 3\sqrt{3})$ is :

- (A) a rational number
- (B) an irrational number
- (C) a natural number
- (D) an integer

8. HCF of (6, 20) is

9. The graph of $y = 2$ is a line parallel to :

- (A) X-axis
- (B) Y-axis
- (C) Passing through origin
- (D) None of these

(3)

10. If the pair of linear equations has no solution, then the lines representing these equations :

- (A) Coincide
- (B) Intersecting at one point
- (C) Parallel to each other
- (D) None of these

11. 35th term of an A.P. : 21, 18, 15, is

12. If $a_n = 2 - 3n$, find a_5 .

13. Find the common difference of an A.P. in which

$$a_{18} - a_{14} = 32.$$

(4)

14. The value of $\cos A$ exceeds 1.

(True/False)

15. Evaluate :

$$\frac{1 - \tan^2 45^\circ}{1 + \tan^2 45^\circ}$$

16. A quadratic equation $ax^2 + bx + c = 0$, $a \neq 0$ has two equal real roots if :

(A) $D = 0$

(B) $D < 0$

(C) $D > 0$

(D) None of these

(5)

17. Find the distance between the points $(0, 0)$ and $(-1, 2)$.

18. Which of the following is not a measure of central tendency ?

(A) Mode

(B) Range

(C) Mean

(D) Median

19. Find the mode of the given data :

4, 8, 6, 7, 2, 4, 3, 5, 4 and 5.

10th ARF(SZ)JKUT2024-25—103-Y

A-3-Y

Turn Over

20. Volume of a cylinder is :

(A) $\pi r^2 h$

(B) $\pi r l$

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

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

Section-B

2 each

21. Find whether the pair of linear equations

$$x + 3y = 6$$

and

$$2x - 3y = 12$$

are consistent or inconsistent.

(7)

22. Find the nature of the roots of the quadratic equation :

$$2x^2 - 3x + 5 = 0$$

23. If

$$\sin A = \frac{3}{4}$$

find $\cos A$ and $\tan A$.

24. Find the point on X-axis which is equidistant from $(2, -5)$ and $(-2, 9)$.

Or

Find the value of 'y' for which the distance between the points

$P(2, -3)$ and $Q(10, y)$ is 10 unit.

25. Find the quadratic polynomial whose sum and product of zeroes respectively 1 and 1.

26. Find the area of sector of a circle with radius 6 cm and the angle of the sector is 60° .

Section-C

3 each

27. Find the area of a rhombus whose vertices are (3, 0), (4, 5), (-1, 4) and (-2, -1) taken in an order.

28. Prove that Parallelogram circumscribing a circle is a rhombus.

Or

Prove that in two concentric circles, the chord of the larger circle, which touches the smaller circle, is bisected at the point of contact.

(9)

29. The length of the minute hand of a clock is 14 cm. Find the area

swept by the minute hand in 5 minutes.

30. Show that $3\sqrt{2}$ is an irrational number.

31. If a line divides any two sides of a triangle in the same ratio, then

the line is parallel to the third side.

Or

ABCD is a trapezium in which $AB \parallel DC$ and its diagonals intersect

each other at point O. Show that :

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

(10)

32. Find the sum of odd numbers between 0 and 50.

33. One card is drawn from well shuffled deck of 52 cards. Find the probability of getting :

(i) a spade

(ii) a red face card

(iii) a jack.

34. D is a point on side BC of a triangle ABC such that :

$$\angle ADC = \angle BAC$$

Show that $CA^2 = CB.CD$.

(11)

Q.

E is a point on the side AD produced of a parallelogram ABCD and

BE intersect CD at F. Show that :

$$\triangle ABE \sim \triangle CFB$$

Section-D

4 each

35. Find the value of K so that the quadratic equation

$$Kx(x - 2) + 6 = 0$$

has equal roots.

(12)

Or

The altitude of right triangle is 7 cm less than its base. If the hypotenuse is 13 cm, find the other two sides.

36. A spherical glass vessel has a cylindrical neck 8 cm long, 2 cm in diameter, the diameter of spherical part is 8.5 cm. Find the volume of the vessel.

Or

A medicine capsule is in the shape of a cylinder with two hemispheres stuck to each of its end, the length of the entire capsule is 14 mm.

Find the surface area, if the diameter is 5 mm.

37. 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.

Or

The angle of elevation of the top of building from the foot of tower is 30° and the angle of elevation of the top of tower from the foot of the building is 60° . If the tower is 50 m high, find the height of building.

38. Prove that :

$$\frac{\cos A}{1 + \sin A} + \frac{1 + \sin A}{\cos A} = 2 \sec A$$

39. If AD and PM are the medians of triangles ABC and PQR respectively such that :

$$\Delta ABC \sim \Delta PQR$$

Prove that :

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

Or

Two tangents TP and TQ are drawn to a circle with centre O from an external point T. Prove that :

$$\angle PTQ = 2 \angle OPQ$$

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

A-4-Z

Roll No.

Total No. of Questions : 17]

[Total No. of Printed Pages : 15

10th ARF(SZ)JKUT2024-25

104-Z

SOCIAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Objective Type Questions)

1 each

1. Do as directed :

(i) When did the Greek revolution for independence begin ?

(A) 1819 A.D.

(B) 1821 A.D.

(C) 1823 A.D.

(D) 1825 A.D.

10th ARF(SZ)JKUT2024-25—104-Z

A-4-Z

Turn Over

(ii) Which Law was broken while launching the Civil Disobedience Movement ?

(A) Salt Law

(B) Sugar Law

(C) Rowlatt Law

(D) Government of India Act

(iii) Jute is known as the of India. (Fill in the blank)

(iv) Swaraj Party was formed in the year :

(A) 1920

(B) 1921

(C) 1922

(D) 1923

(v) was the Maharaja of Jammu and Kashmir at the time of accession. (Fill in the blank)

(vi) Which one of the following is a Kharif Crop ?

(A) Wheat

(B) Paddy

(C) Barley

(D) Masoor

(vii) Which town is the electronic capital of India ?

(A) Mumbai

(B) Kolkata

(C) Bangalore

(D) Pune

(viii) Democracy is based on the ideas of :

(A) Freedom

(B) Negotiation

(C) Deliberation

(D) Both (B) and (C)

(ix) Which South Asian Country always had a democratic government ?

(A) Bhutan

(B) India

(5)

(C) Sri Lanka

(D) Myanmar

(x) NTPC stands for

(Fill in the blank)

(xi) PMEGP stands for

(Fill in the blank)

(xii) Which one of the following is not a slow-onset disaster ?

(A) Drought

(B) Famine

(C) Environment degradation

(D) Earthquake

(xiii) Kashmir is known throughout the world for :

(A) Handicraft

(B) Minerals

(C) Forest

(D) None of these

(xiv) President's Rule is implemented under Article of the

Indian Constitution.

(Fill in the blank)

(xv) Petroleum is also called

(Fill in the blank)

(xvi) ORS stands for

(Fill in the blank)

(xvii) When did the President of India issue an order to make

J & K a Union Territory ?

(A) 9th August, 2019

(B) 6th September, 2019

(C) 6th July, 2019

(D) 6th June, 2019

(xviii) There are number of Rajya Sabha seats in UT of

Jammu and Kashmir.

(Fill in the blank)

(xix) New Kashmir manifesto was adopted in

(Fill in the blank)

(xx) Which sector deals with processing and conversion of raw-materials into finished goods ?

- (A) Primary Sector
- (B) Secondary Sector
- (C) Tertiary Sector
- (D) Quinary Sector

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. What was the impact of Great Depression on Indian Economy ?

Or

Write some of the inventions that helped the growth of textile industry.

4. Why were the Corn Laws scrapped ? Explain any *three* reasons.

Or

What were the efforts made by Dogra Maharaja Ranbir Singh to organise silk industry in Kashmir ?

5. Explain any *four* characteristics of commercial farming in India.

6. Describe the distribution of Iron Ore in India.

7. A few subjects in various lists of the Indian Constitution are given here. Group them under the Union, State and Concurrent Lists as provided in the table below :

(a) Defence

(b) Police

(c) Agriculture

(d) Education

(e) Banking

(f) Forests

(g) Communications

(h) Trade

(i) Marriages

Union List	
State List	
Concurrent List	

8. Name the eight Regional Parties of India.

9. Caste inequalities are still continuing in India. How ?

10. What are the main employment generating sectors of economy of Jammu and Kashmir ?

11. What are the objectives of first-aid ?

Section-C

(Long Answer Type Questions)

5 each

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

12. Why did nationalist tension emerge in the Balkans ?

13. What are the different forms of power sharing in modern democracies ?

Explain your answer with examples. <https://www.jkboseonline.com>

14. How have technical and economical development led to more consumption of resources ?

15. What are major reasons of slow growth of handicrafts and handloom industry in U.T. of Jammu and Kashmir ?

16. Read the extract and answer the questions given below :

Very cheap small books were brought to markets, in 19th century and sold at crossroads, allowing poor people to markets to buy them. Public Libraries were set-up from early Twentieth Century, expanding the access to books. These libraries were located mostly in cities and towns. From the late nineteenth century issues of caste discrimination began to be written about in many printed tracts and essays. Writers like Jyotiba Phule, B.R. Ambedkar and E.V. Ramaswamy wrote powerfully on caste discrimination and their writing were read by people all over India. Millworkers of Bangalore set up libraries to educate themselves, wrote to show the links between caste and class exploitation. All over India, they set up libraries.

Questions :

- (a) Name the writers who wrote on the issues of cast discrimination. 1
- (b) Name the places and purpose of setting up libraries during early twentieth century. 2
- (c) Why millworkers set up libraries ? Explain. 2

Section-D

(Map Based Question)

17. (a) Indicate the following in a given outline map of India :

- (i) Indira Gandhi International Airport

(ii) Mumbai Port

(iii) Railway line from Baramulla to Sangaldan

(b) On the outline map of the world, shade and label two Federal Countries.

A-4-Y

Roll No.

Total No. of Questions : 17]

[Total No. of Printed Pages : 15

10th ARF(SZ)JKUT2024-25

104-Y

SOCIAL SCIENCE

Time : 3 Hours]

[Maximum Marks : 80

Section-A

(Objective Type Questions)

1 each

1. Do as directed :

(i) When did the French revolution take place in Europe ?

~~(A)~~ 1789 A.D.

(B) 1799 A.D.

(C) 1792 A.D.

(D) 1795 A.D.

ARF(SZ)JKUT2024-25—104-Y

Turn Over

1-Y

(ii) Who was the 1st President of Indian National Congress ?

(A) A.O. Hume

(B) Gandhiji

☒ (C) S.N. Benerjee

(D) Lajpat Rai

(iii) Pulses are crops (Fill in the blank)

(iv) Champaran Satyagraha is related to :

(A) Mining

(B) Forestry

(C) Indigo Cultivation ✓

(D) Jute Mills

(v) was the most celebrated Kashmiri Poet who wrote
"Bomber Te Yemberzal." (Fill in the blank)

(vi) Which crop was introduced in Baba Budan hills ?

(A) Tea

(B) Coffee

(C) Rice

(D) Cotton

(vii) Which town is the electronic capital of India ?

(A) Mumbai

(B) Kolkata

(C) Bangalore ✓

(D) Pune

(viii) 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 ✓

(ix) Which one of these is better ?

(A) Democracy

(B) Dictatorship

(C) Both (A) and (B)

(D) None of these

(x) Which one of the following factors is not a locational factor of an industry ?

- (A) Climate
- (B) Capital
- (C) Cheap Land
- (D) Per capita Income

(xi) N.G.O. stands for (Fill in the blank)

(xii) Plastic bags are (Fill in the blank)

(xiii) The most employment generation sector of Jammu and Kashmir is :

- (A) Handicrafts and Handloom

(B) • Tourism ✓

(C) Agriculture

(D) ITI

(xiv) New Kashmir Manifesto was adopted in

(Fill in the blank)

(xv) Iron ore is a mineral. (Fill in the blank)

(xvi) P.M.R.Y. stands for (Fill in the blank)

(xvii) Union Territory of Jammu and Kashmir was formed in the
year :

(A) 2017

(B) 2018

(C) 2019

(D) 2020

(xviii) There are number of Rajya Sabha seats in UT of Jammu and Kashmir. (Fill in the blank)

(xix) became the first Sadr-i-Riyasat in 1952 A.D.

(A) Hari Singh

(B) Karan Singh

(C) Sheik Abdullah

(D) Sadiq

(xx) Which is a natural source of air pollution ?

(A) Man

(B) Water

(C) Volcano

(D) None of these

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 ?

10thARF(SZ)JKUT2024-25—104-Y

A-4-Y

3. What was the impact of Great Depression on Indian Economy ?

Or

Write some of the inventions that helped the growth of textile industry.

4. Why were the Corn Laws scrapped ? Explain any *three* reasons.

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Section-C

(Long Answer Type Questions)

5 each

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

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