

**B-11-X**

Roll No.....

Total No. of Questions : 16]

[Total No. of Printed Pages : 4

**12<sup>th</sup>ARM(SZ)JKUT2024**

**, 1111-X**

**ZOOLOGY**

**(Biology)**

**Time : 1½ Hours]**

**[Maximum Marks : 35**

***General Instructions :***

This question paper contains four Sections :

(i) **Section-A** contains *five* Very Very Short Answer Type Questions of 1 mark each.  $1 \times 5 = 5$  marks

(ii) **Section-B** contains *five* Very Short Answer Type Questions of 2 marks each to be answered in **20-30** words.

$2 \times 5 = 10$  marks

(iii) **Section-C** contains *five* Short Answer Type Questions of 3 marks each to be answered in **100-150** words.  $3 \times 5 = 15$  marks

(iv) **Section-D** contains *one* Long Answer Type Question to be answered in **150-200** words.  $1 \times 5 = 5$  marks

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Turn Over

## SECTION-A

(VERY VERY SHORT ANSWER TYPE QUESTIONS) 1 each

1. Site of fertilization in mammals is :

- (A) Ovary
- (B) Uterus
- (C) Vagina
- (D) Fallopian tube

2. Trisomic condition is represented as :

- (A)  $2n + 1$
- (B)  $2n - 2$
- (C)  $2n + 2$
- (D) None of these

3. Inheritance is controlled by Multiple alleles in :

- (A) Colour-blindness
- (B) Sickle cell anaemia
- (C) Phenyl ketonuria
- (D) Blood group

4. 'AZT' is used in treatment of :

(A) Malaria

~~(B)~~ AIDS

(C) T.B.

(D) Kala-Azar

5. The process of vaccination was discovered by :

~~(A)~~ Edward Jenner .

(B) Robert Koch

(C) Louis Pasteur

(D) Von-Behring

### SECTION-B

(VERY SHORT ANSWER TYPE QUESTIONS)

2 each

6. What do you mean by 'Amniocentesis' ?

7. What is Placenta ? Write down its functions.

8. What are Darwin's finches ?
9. Write down preventive measures of 'Hepatitis'.
10. What do you mean by 'Biosafety Issues' ?

### SECTION-C

#### (SHORT ANSWER TYPE QUESTIONS)

3 each

11. Draw a well labelled diagram of Microscopic anatomy of testis.
12. Write a short note on colour blindness in human beings.
13. Write down the applications of Gene therapy.
14. Explain the term 'MTP' in brief.
15. Write a short note on drug abuse.

### SECTION-D

#### (LONG ANSWER TYPE QUESTIONS)

5

16. What do you mean by 'DNA Fingerprinting' ? Explain in brief 'Human Genome Project' and its significance.

Or

Explain Hardy-Weinberg's principle. Add a note on adaptive radiation.