

**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

12<sup>th</sup>ARM(SZ)JKUT2024-1111-X

**B-11-X**

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.

12<sup>th</sup>ARM(SZ)JKUT2024-1111-X

**B-11-X**

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.

thARM(SZ)JKUT2024-1111-X

**-11-X**