

**0231****A**

Total No. of Questions—21

Total No. of Printed Pages—2

Regd. No.

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Part III

**ZOOLOGY, Paper - II**

(English Version)

**Time : 3 Hours]****[Max. Marks : 60****Note :—** Read the following instructions carefully.

- (i) Answer all the questions of Section 'A'. Answer **ANY SIX** questions in Section 'B' and answer **ANY TWO** questions in Section 'C'.
- (ii) In Section 'A', questions from Sl. Nos. 1 to 10 are of very short answer type. Each question carries **TWO** marks. Every answer may be limited to **5** lines. Answer all these questions at one place in the same order.
- (iii) In Section 'B', questions from Sl. Nos. 11 to 18 are of short answer type. Each question carries **FOUR** marks. Every answer may be limited to **20** lines.
- (iv) In Section 'C', questions from Sl. Nos. 19 to 21 are of long answer type. Each question carries **EIGHT** marks. Every answer may be limited to **60** lines.
- (v) Draw labelled diagrams wherever necessary for questions in Sections 'B' and 'C'.

**SECTION-A****10×2=20****Note :—** Answer all the questions in **5** lines each :

1. What is Chyme ?
2. What are the Columns of Bertin ?

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3. Name the keystone bone of the cranium. Where is it located ?
4. How do Rods and Cones of human eye differ from each other chemically and functionally ?
5. What are the measures one has to take to prevent contracting STDS ?
6. What is "Capacitation" of sperms ?
7. What are multiple alleles ?
8. Distinguish between a Drone and Worker in a honeybee colony.
9. What is Turner's syndrome ?
10. Mention any four fish by-products.

### SECTION B

6×4=24

Note :— Answer any SIX questions in 20 lines each :

11. Describe the process of digestion of proteins in the stomach.
12. Describe disorders of Respiratory system.
13. Draw a neat labelled diagram of pelvic girdle.
14. Write a note on Addison's disease and Cushing's syndrome.
15. Explain the mechanism by which HIV multiplies and leads to AIDS.
16. Discuss the role of different patterns of selections in evolution.
17. Explain Darwin's theory of Natural Selection with industrial melanism as an experimental proof.
18. Write about the procedure involved in MRI.

### SECTION-C

2×8=16

Note :— Answer any TWO questions in 60 lines each :

19. Describe the Excretory system of man giving the structure of a Nephron.
20. Describe female reproductive system of a woman with the help of a labelled diagram.
21. Describe chromosomal theory of sex determination.

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