

231

I

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.

- (1) Answer all questions of Section 'A'. Answer ANY SIX questions in Section 'B' and answer ANY TWO questions in Section 'C'
- (2) In Section 'A', questions from Sr. 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 the one place in the same order.
- (3) In Section 'B', questions from Sr. Nos. 11 to 18 are of 'Short Answer Type'. Each question carries FOUR marks. Every answer may be limited to 20 lines.
- (4) In Section 'C', questions from Sr. Nos. 19 to 21 are of 'Long Answer Type'. Each question carries EIGHT marks. Every answer may be limited to 60 lines.
- (5) Draw labelled diagrams wherever necessary for questions in Sections 'B' and 'C'.

SECTION A

10×2=20

Note :— Answer ALL the questions.

1. What is Chyme ?
2. What are the columns of 'Bertin' ?
3. Write the difference between Actin and Myosin.
4. What is "Insulin Shock" ?

5. What is acromegaly ? Name the hormone responsible for this disorder.
6. What is organ of corti ?
7. What are the functions of sertoli cells of the seminiferous tubules and the Leydig cells in man ?
8. What is compaction in the human development ?
9. What is electrocardiography and what are the normal components of ECG ?
10. Define the terms layer and broiler.

SECTION B

6×4=24

Note :— Answer ANY SIX questions.

11. Describe the process of digestion of proteins in the stomach.
12. Describe disorders of respiratory system.
13. Draw a labelled diagram of T.S. of the spinal cord of man.
14. Explain the mechanism by which HIV multiplies and leads to AIDS.
15. Describe the Genic Balance Theory of sex determination.
16. Write a short note on the theory of mutations.
17. Distinguish between homologous and analogous organs.
18. Explain in brief structure of Insulin.

SECTION C

2×8=16

Note :— Answer ANY TWO of the following questions.

19. Write a note on the working of the heart of a man.
20. Describe female reproductive system of a woman with the help of a labelled diagram.
21. What is crisscross inheritance ? Explain the inheritance of one sex linked recessive character in human.