

231**III**

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 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 one place in the same order.
- (iii) 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.
- (iv) 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.
- (v) Draw labelled diagrams, wherever necessary in Sections – B and C.

SECTION – A

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

1. Name different types of papillae present on the tongue of man ?
2. What are the columns of Bertin ?
3. Write the difference between actin and myosin.
4. What is organ of Corti ?
5. Name the gland that increases in size during childhood and decreases in size during adulthood. What important role does it play in case of infection ?

6. What is erythropoietin ? What is its function ?
7. It is true that 'MTP is not meant for population control'. Then why did the Government of India legalize MTP ?
8. Mention the advantages of 'Lactational amenorrhea method.'
9. Mention any four fish by-products.
10. How many amino acids and polypeptide chains are present in insulin ?

SECTION - B

Note : Answer any **six** questions in **20** lines each :

6 × 4 = 24

11. Draw a neat labelled diagram of L.S. of a tooth.
12. What are the major transport mechanisms for CO₂ ? Explain.
13. Describe the structure of synovial joint with the help of a neat labelled diagram.
14. Write short notes on immunoglobulins.
15. Describe erythroblastosis foetalis.
16. Distinguish between homologous and analogous organs.
17. What is meant by genetic drift ? Explain genetic drift citing the example of Founder Effect.
18. Write briefly about different waves and intervals in an ECG.

SECTION - C

Note : Answer any **two** questions in **60** lines each :

2 × 8 = 16

19. Write notes on the working of the heart of man.
20. Describe male reproductive system of a man. Draw a labelled diagram of it.
21. What is criss-cross inheritance ? Explain the inheritance of one sex linked recessive character in human beings.