

**231****III**

Total No. of Questions – 21

Regd.

Total No. of Printed Pages – 2

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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 CO<sub>2</sub> ? 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.