

231**III**

Total No. of Questions – 21

Regd.

Total No. of Printed Pages – 2

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 for questions in Sections – B and C.

SECTION – A

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

1. What is meant by chloride shift ?
2. Distinguish between the enzymes renin and rennin.
3. Name two cranial sutures and their locations.
4. What is triad system ?
5. What is acromegaly ? Name the hormone responsible for this disorder.

6. What is erythropoietin ? What is its function ?
7. What are the functions of Sertoli cells of the seminiferous tubules and the Leydig cells in man ?
8. Mention the advantages of 'Lactational amenorrhea method'.
9. Explain the term hypophysation.
10. What is electrocardiography and what are the normal components of ECG ?

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. Explain the process of inspiration and expiration under normal conditions.
13. Give an account of the retina of the human eye.
14. Write short note on B-cells.
15. Describe erythroblastosis foetalis.
16. Write a short note on the theory of mutations.
17. Explain Darwin's theory of Natural Selection with industrial melanism as an experimental proof.
18. Discuss in brief about 'Avian Flu'.

SECTION - C

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

2 × 8 = 16

19. Describe the structure of the heart of man with the help of neat labelled diagram.
20. Describe female reproductive system of a human with the help of a labelled diagram.
21. Describe chromosomal theory of sex determination.