

Total No. of Questions – 21

Regd.

Total No. of Printed Pages – 2

No.

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 out of eight in Section – B and answer any **two** questions out of three 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. Each answer may be limited to **5** lines.**10 × 2 = 20**

1. What is meant by chloride shift ?
2. Define glomerular filtration.
3. Name the cranial meninges covering the brain of man.
4. What is all-or-none principle ?
5. Distinguish between diabetes insipidus and diabetes mellitus.
6. “Colostrum is very much essential for the new born infants.” Justify.

7. What in your view are the reasons for population explosion especially in India ?
8. Mention the advantages of Lactational amenorrhea method.
9. What is popularly called “Guardian Angel of cell’s Genome” ?
10. What is electrocardiography and what are the normal components of ECG ?

SECTION – B

Note : Answer any **six** questions. Each answer may be limited to **20 lines** each. **6 × 4 = 24**

11. Describe disorders of respiratory system.
12. Draw a labelled diagram of the V.S. of kidney.
13. What is Cori’s cycle ? Explain the process.
14. Write a note on Addison’s disease and Cushing’s syndrome.
15. Write short note on B-cells.
16. How is sex determined in human beings ?
17. Describe erythroblastosis foetalis.
18. Explain the different types of cancers.

SECTION – C

Note : Answer any **two** questions. Each answer may be limited to **60 lines**. **2 × 8 = 16**

19. Describe the structure of the heart of man with the help of neat labelled diagram.
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.