

131 (New Syllabus)

Total No. of Questions - 21

Regd.

Total No. of Printed Pages - 2

No.

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Part – III ZOOLOGY, Paper-I (English Version)

Time : 3 Hours]

[Max. Marks : 60

Note : Read the following instructions carefully.

- (i) Answer **all** the questions in Section – A. Answer any **six** questions in Section – B and any **two** questions in Section – C.
- (ii) In Section – A, questions from Sl. 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 Sl. 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 Sl. Nos. 19 to 21 are of Long Answer Type. Each question carries **eight** marks. Every answer may be limited to **60** lines.
- (v) In Section – B and C, draw labelled diagrams wherever necessary.

SECTION – A

10 × 2 = 20

Note : Answer **all** the questions in 5 lines.

1. What is Trinominal Nomenclature ? Give an example.
2. What is Cephalisation ? How is it useful to its possessors ?
3. Distinguish between tendon and a ligament.
4. Define Osteon.
5. What are the functions of canal system of sponges ?
6. What are the Jacobson's organs ? What is their function ?
7. Distinguish between proter and opisthe.

8. Define conjugation with reference to ciliates. Give two examples.
9. A person is suffering from bowel irregularity, abdominal pain, blood and mucus in stools etc. Based on these symptoms, name the disease and its causative organism.
10. What is biological magnification ?

SECTION – B

6 × 4 = 24

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

11. Define species. Explain various aspects of species.
12. Describe the structure of cardiac muscle.
13. What are the salient features of Echinoids ?
14. Compare and contrast cartilaginous and bony fishes.
15. Give an account of pseudopodia.
16. "Prevention is better than cure." Justify with regard to TDA abuse.
17. Draw a neat labelled diagram of the salivary apparatus of cockroach.
18. Write a short note on the various trophic levels in a typical ecosystem.

SECTION – C

2 × 8 = 16

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

19. Describe the structure and life cycle of *Ascaris lumbricoides* with the help of a neat labelled diagram.
20. Describe the blood circulatory system of periplanata and draw a neat labelled diagram of it.
21. Describe lake as an ecosystem giving examples for various zones and biotic components of it.