



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 :

- (1) Answer all the questions of Section - A. Answer any six questions in Section - B and answer any two questions in Section - C.
- (2) 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 questions at one place in the same order.
- (3) 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.
- (4) 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.
- (5) 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. What does ICZN stand for ?
2. Define osteon.
3. Draw a labelled diagram of T.S. of flagellum.
4. What are retroperitoneal organs ?
5. How does a mature RBC of a mammal differ from that of other vertebrates ?
6. Mention the advantages of some U.V. rays to us.
7. What do you call the locomotor structures of Nereis ? Why is Nereis called a polychaete ?
8. Distinguish between proter and opisthe.
9. Mention the animals that exhibited a 'tube-within-a-tube' organisation for the first time. Name their body cavity.
10. In which way does tobacco affect the respiration ? Name the alkaloid found in tobacco.

### SECTION – B

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

**6 x 4 = 24**

11. Explain 'River Popper' hypothesis.
12. What are the chief characters of of the crustaceans?
13. Describe the three types of cartilage.
14. List out eight characteristics that help distinguish a fish from the other vertebrates.
15. Describe the process of longitudinal binary fission in Euglena.
16. Distinguish between hypertrophy and hyperplastia with an example for each.
17. How do marine animals adapt to hypertonic sea water?
18. Draw a neat labelled diagram of the mouth parts of a cockroach.

### SECTION – C

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

**2 x 8 = 16**

19. Describe the digestive system of cockroach with the help of a neat labelled diagram.
20. List out the major air pollutants and describe their effects on human beings.
21. Explain the structure and life cycle of entamoeba histolytica with the help of a neat labelled diagram.

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