

Total No. of Questions – 21

Total No. of Printed Pages – 2

Regd.

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. Define the term histology. What is it otherwise called ?
2. Radial symmetry is an advantage to the sessile or slow moving organisms. Justify this statement.
3. Distinguish between a tendon and a ligament.
4. What is the haematocrit value ?
5. Distinguish between amphids and phasmids.

6. What are pneumatic bones ? How do they help birds ?
7. List any two differences between a flagellum and a cilium.
8. Why do we refer to the offspring, formed by asexual method of reproduction, a clone ?
9. The eggs of *Ascaris* are called 'Mammillated eggs'. Justify.
10. What is cyclomorphosis ? Explain its importance in *Daphnia*.

SECTION – B

Note : Answer any six questions in 20 lines each.

6 × 4 = 24

11. Explain in brief 'Biodiversity Hot Spots'.
12. Describe the structure of a multipolar neuron.
13. What are the salient features of the echinoids ?
14. List out eight characteristics that help distinguish a fish from the other vertebrates.

15. Give an account of pseudopodia.
16. What are the adverse effects of tobacco ?
17. Draw a neat and labelled diagram of the salivary apparatus of cockroach.
18. What are the deleterious effects of depletion of ozone in the stratosphere ?

SECTION – C

Note : Answer any two questions in 60 lines each.

2 × 8 = 16

19. Describe the life cycle of *Plasmodium vivax* in mosquito.
20. Describe the respiratory system of cockroach with the help of neat and labelled diagrams.
21. Describe different types of food chains that exist in an ecosystem.