

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 in 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 these 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** questions in **5** lines each.

10 × 2 = 20

1. What is trinomial nomenclature ? Give an example.
2. Mention the animals that exhibited a “tube-within-a-tube” organisation for the first time. Name their body cavity.
3. Define ‘Osteon’.
4. Distinguish between a tendon and a ligament.
5. Which arthropod, you have studied, is called a “living fossil” ? Name its respiratory organs.

6. Distinguish between Proter and Opisthe
7. What is meant by nocturnal periodicity with reference to the life history of a nematode parasite you have studied ?
8. Name three meninges. In which group of animals do you find all of them ?
9. Distinguish between lobopodium and filopodium. Give an example to each of them.
10. Define Mutualism. Give an example.

SECTION – B

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

6 × 4 = 24

11. What is 'Evil Quartet' ?
12. Give an account of Glandular Epithelium.
13. Mention the salient features of Holothuroidea.
14. What are the modifications that are observed in birds that help them in flight ?
15. What are lateral appendages ? Based on their presence and absence, write the various types of flagella giving atleast one example for each type.
16. Why is adolescence is considered vulnerable phase ?
17. Draw a neat and labelled diagram of Ommatidium.
18. Discuss the causes and effects of "Global Warming". What measures need to be taken to control "Global Warming" ?

SECTION – C

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

2 × 8 = 16

19. Explain the structure and life cycle of Entamoeba histolytica with the help of neat and labelled diagram.
20. Describe the Blood circulatory system of Periplaneta in detail and draw a neat and labelled diagram of it.
21. Give an account of flow of energy in an ecosystem.