

Total No. of Questions – 21

Regd.

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Total No. of Printed Pages – 2

No.

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 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 Section – B and C.

SECTION – A

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

10 × 2 = 20

1. What is meant by Tautonymy ? Give two examples.
2. What is Enterocoelom ? Name the enterocoelomate phyla in the animal kingdom.
3. Distinguish between exocrine and endocrine glands with examples.
4. Mention any two substances secreted by mast cells and their functions.
5. What is the function of radula ? Give the name of the group of molluscs which do not possess a radula.

6. Name two poisonous and non-poisonous snakes found in South India.
7. List any two differences between a flagellum and a cilium.
8. What is a Kinetin ?
9. What is a hyper-parasite ? Mention the name of one hyper-parasite.
10. Mention two advantages of UV rays to us.

SECTION – B

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

6 × 4 = 24

11. Define Species. Explain the various aspects of 'Species'.
12. Explain Haversian system with a neat labelled diagram.
13. Write short note on the salient features of the anthozoans.
14. Compare and contrast cartilaginous and bony fishes.
15. Describe the process of longitudinal binary fission in Euglena with neat labelled diagrams.
16. What are the adverse effects of Tobacco ?
17. Draw a neat labelled diagram of the mouth parts of cockroach.
18. Describe 'Green House Effect'.

SECTION – C

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

2 × 8 = 16

19. Describe the life cycle of Plasmodium vivax in mosquito with the help of diagram.
20. Describe the blood circulatory system of periplaneta in detail and draw a neat and labelled diagram of it.
21. Describe different types of food chains that exist in an ecosystem.