

131

II

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 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 Species richness.
2. Distinguish between a tendon and a ligament.
3. Distinguish between Osteoblasts and Osteoclasts.
4. What is the haematocrit value ?
5. What is Aristotle's Lantern ? Give one example of an animal possessing it.
6. Distinguish between milt and spawn.

7. List out any two differences between a flagellum and a cilium.
8. Distinguish between Proter and Opisthe.
9. What do you mean by Parasitic Castration ? Give one example.
10. What is meant by osmotrophic nutrition ?

SECTION – B

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

6 × 4 = 24

11. Explain 'Rivet Popper' hypothesis.
12. What are the salient features of the echinoids ?
13. Describe the three types of cartilage.
14. What are the modifications 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 at least one example for each type.
16. Distinguish between addiction and dependence.
17. Draw a neat labelled diagram of the salivary apparatus 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 human with a neat labelled diagram.
20. Describe the digestive system of cockroach with the help of a neat labelled diagram.
21. List out the major air pollutants and describe their effects on human beings.