



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 :

$10 \times 2 = 20$

1. What is biogenesis?
2. Differentiate between Protostomia and Deuterostomia.
3. What is a sesamoid bone ? Give an example.
4. What is the hematocrit value ?
5. Distinguish between amphids and phasmids ?
6. What is Aristotle's lantern? Give an example of an animal possessing it.

7. What is kinesis?
8. Define Neoplasia. Give an example.
9. Define drug abuse.
10. What is cytokinesis? Explain its importance in Daphnia.

SECTION – B

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

6 x 4 = 24

11. Define Species. Explain the various aspects of 'Species'
12. Describe the structure of a multipolar neuron.
13. What are the salient features of the Echinoids?
14. Name the four hall marks of chordates and explain the principal function of each of them.
15. Write eight salient features of the class Amphibia.
16. Give an account of Pseudopodia.
17. Draw a neat diagram of Paramecium and label its important structures.
18. Why is adolescence considered a vulnerable phase ?

SECTION – C

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

2 x 8 = 16

19. Compare and contrast the three types of muscular tissue
20. Describe the life cycle of Plasmodium vivax in mosquito with labelled diagram.
21. Write an essay on water as an ecological factor.