



Total No. of Questions - 21

Total No. of Printed Pages - 2

Regd.

No.

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Part -III
ZOOLOGY, Paper - I
(English Version)

Max. Marks : 60

Time : 3 Hours**Note :- Read the following instructions carefully.**

- (i) Answer all questions of Section-A. Answer any six questions in Section-B and answer any two questions in Section-C.
- (ii) In Section-A, questions from Sr. Nos. 1 to 10 are 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.
- (iii) 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.
- (iv) 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.
- (v) Draw labelled diagrams wherever necessary in Section-B and C.

10×2=20

SECTION - A**Note :- Answer all questions.**

1. Define species richness.
2. What is the Haematocrit Value?
3. Mention any two substances secreted by mast cells and their functions.
4. Mention the animals that exhibited a "tube-within-a-tube" organisation for the first time. Name their body cavity.
5. What is botryoidal tissue?



6. What are 'Jacobson's organs'? What is their function?
7. What is a kinety?
8. Draw a labelled diagram of T.S. of flagellum.
9. What do you mean by parasitic castration? Give one example.
10. Define Commensalism. Give one example.

SECTION - B

6×4=24

Note :- Answer any six questions.

11. Write short note on In-situ Conservation.
12. Describe the structure of a skeletal muscle.
13. What are the salient features of the echinoids?
14. What are the modifications that are observed in birds that help them in flight?
15. Give an account of Pseudopodia.
16. 'Prevention is better than cure.' Justify with regard to TDA abuse.
17. Draw a neat labelled diagram of the salivary apparatus of Cockroach.
18. Explain van't Hoff Rule.

SECTION - C

Note :- Answer any two questions.

2×8=16

19. Describe the structure and lifecycle of *Ascaris lumbricoides* with the help of a neat and labelled diagram.
20. Describe the digestive system of cockroach with the help of a neat labelled diagram.
21. Describe different types of food chains that exist in an ecosystem.