



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 × 2 = 20

1. Write the full form of IUCN. In which book threatened species are enlisted ?
2. Mention the animals that exhibited a tube-within-a-tube organisation for the first time ? Name their body cavity.
3. What is the strongest cartilage ? In which region of the human body do you find it ?
4. Cardiac Muscle is highly resistant to fatigue. Justify.
5. What are two chief morphological body forms of cnidarians ? What are their chief functions ?

6. Name the four extra embryonic membranes ?
7. List any two differences between a flagellum and cilium.
8. Why do we refer to the offspring formed by a sexual method of reproduction, a clone ?
9. What do you mean by parasitic castration ? Give one example.
10. What is biological magnification ?

SECTION - B

Note : Answer any six questions in 20 lines each :

6 × 4 = 24

11. Define species. Explain the various aspects of species.
12. Describe the three types of cartilage.
13. What are the salient features exhibited by polychaetes ?
14. Name the four 'hallmarks' of chordates and explain the principal function of each of them. <https://www.apboardonline.com>
15. Give an account of Pseudopodia.
16. Distinguish between hypertrophy and hyperplasia with an example for each ?
17. Draw a neat labelled diagram of the Salivary apparatus of Cockroach.
18. What is summer stratification ? Explain.

SECTION - C

Note : Answer any two questions in 60 lines each :

2 × 8 = 16

19. Describe the Life Cycle of *Plasmodium vivax* in mosquito.
20. Describe the digestive system of cockroach with the help of a neat labelled diagram.
21. (A) What are the deleterious effects of depletion of ozone in the stratosphere.
(B) Describe Green House Effect.