

**131****II**

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 :

$6 \times 4 = 24$

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.
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 :

$2 \times 8 = 16$

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.