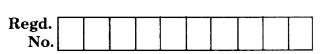
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Total No. of Questions : 21 Total No. of Printed Pages : 3



Part - III ZOOLOGY, Paper - I

(English version)

Time : 3 Hours]

[Max. Marks : 60

Note : Read the following instructions carefully.

- (i) Answer all the questions in Section-A. Answer ANY SIX questions in Section B and ANY TWO questions in Section C.
- (ii) In Section-A, questions from Sl. 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 these questions at one place in the same order.
- (*iii*) In Section-B, questions from Sl. 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 Sl. Nos. 19 to 21 are of *Long answer type*. Each question carries EIGHT marks. Every answer may be limited to 60 lines.
- (v) In Sections-B and C, draw labelled diagrams wherever necessary.

SECTION- A

 $10 \times 2 = 20$

Note : Answer all the questions in 5 lines.

- **1.** Define the term Species.
- 2. Write the two uses of Bio-technology.

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- **3.** Distinguish between Polyp and Medusa forms of Cnidarians.
- **4.** Give two examples for Biradial symmetry.
- 5. How does the Micro conjugant differ from Macro conjugant structurally in Vorticella ?
- 6. What is Exflagellation ?
- 7. Why the nucleus of Entamoeba histolytica is called "Cart wheel nucleus" ?
- 8. Draw a labelled diagram of the spermatheca in Pheretima.
- **9.** How does Cockroach conserve water in its body ?
- 10. Distinguish between Eury-thermal and Steno-thermal animals.

SECTION - B

 $6 \times 4 = 24$

Note : Answer ANY SIX questions each in 20 lines.

- 11. Mention the general characters of Anthozoans.
- 12. Write a short note on Haversian system.
- 13. Write a note on the process of transverse binary fission in Paramecium.
- **14.** Describe the different types of flagella in protozoans.
- **15.** Describe the Parasitic adaptations.
- **16.** What is the economic importance of Silk-worms ?
- **17.** Draw a neat labelled diagram of the mouth parts of Butterfly.
- **18.** Explain the importance of Bio-diversity.

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<u>SECTION - C</u>

 $2 \times 8 = 16$

Note : Answer ANY TWO questions.

- 19. Write an essay on the life cycle of Taenia Solium with neat labelled diagram.
- 20. Describe the excretory system in Pheretima with the help of diagram.
- 21. Write an essay on Light as an ecological factor.

