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Total No. of Questions - 21 Total No. of Printed Pages - 2

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Part - III ZOOLOGY, Paper-I

(English Version)

Time: 3 Hours

[Max. Marks: 60

Read the following instructions carefully:

- Answer all the questions in Section A. Answer any six questions in Section B and answer any two questions in Section - C. s and another thou and any hand
- (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 these questions at one place in the same order,
- In Section B, questions from Sr. Nos. 11 to 18 are of Short Answer Type. Each (3) question carries four marks. Every answer may be limited to 20 lines. Describe the structure and function of the heart in Periplanets, with
 - 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.
 - Draw labelled diagrams wherever necessary for questions in Sections B and C. (5)

SECTION - A

Closeity and describe the epithelial rissaes on the hans of the structural medification

Note: Answer all questions in 5 lines each. $10 \times 2 = 20$

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- Differentiate between Protostomia and Deuterostomia. 1.
- What is sesamoid bone? Give an example. 2.
- In which animal is the Aristotle's lantern present? What is its function? 3.
- Name the four extra embryonic membranes. 4.
- Why do we refer to the offspring formed by asexual method of reproduction, a clone? 5.
- Distinguish between lobopodium and filopodium. 6.

- What is meant by nocturnal periodicity with reference to the life history of a 7. nematode parasite you have studied?
- Why is the head in cockroach called hypognathous? 8.
- 9. What is storage excretion?
- 10. Define mutualism. Give one example.

SECTION - B

Note: Answer any six questions in 20 lines each.

- Define species. Explain the various aspects of species.
- What are the chief characters of crustaceans?
- What are the modifications that are observed in birds that help them in flight? . 13.
 - What are lateral appendages? Based on their presence or absence, write the various types of flagella giving atleast one example for each type with diagrams.
 - Distinguish between addiction and dependence. 15.
 - Draw a neat labelled diagram of the salivary apparatus of cockroach. 16.
 - Describe the structure and function of the heart in Periplaneta, with the help of a diagram. To senion - C. questions from the New 12 to 21 and of tong. On a points and at
 - How do marine animal adapt to hypertonic seawater? Stow (Condition of the content of viscounts are also many fill which the following the content of the content o

SECTION - C

Note: Answer any two questions in 60 lines each. $2 \times 8 = 16$

- 19. Classify and describe the epithelial tissues on the basis of the structural modification Differentiale between Projection in 1 Deal arealoung of cells. Give examples.
- Describe the life cycle of Plasmodium vivax in mosquito, with the help of diagrams. 20.
- Describe lake as an ecosystem giving examples for the various zones and the biotic 21. components in it. Carrier the risk and the rest

0131/TS (Day-7)

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