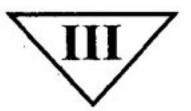
131



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

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:

 $10 \times 2 = 20$ 

- 1. What is trinominal nomenclature? Give an example.
- 2. What are retroperitonial organs?
- Mention the animals that exhibited a 'tube-within-a tube' organisation for the first time. Name their body cavity.

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- 4. What are microglia and what is their origin? Add a note on their functions.
- 5. What are the functions of Canal system of sponges?
- 6. How do you distinguish a male frog from a female frog?
- 7. Define conjugation with reference to ciliates. Give two examples.
- 8. Draw a labelled diagram of T.S. of Flagellum.
  - 9. Define incubation period. What is its duration in life cycle of Plasmodium vivax?
  - Distinguish between lotic and lentic habitats.

## SECTION - B

Note: Answer any six questions in 20 lines each:

 $6 \times 4 = 24$ 

- 11. What is the 'evel quartet'?
- Describe the structure of a skeletal muscle.
- 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. Describe the process of longitudinal binary fission in Euglena.
- 16. 'Prevention is better than cure.' Justify with regard to TDA abuse.
- 17. Draw a neatly labelled diagram of the mouth parts of the cockroach.
- 18. Write a short note on DFC. Give its significance in a terrestrial ecosystem.

#### SECTION - C

Note: Answer any two questions in 60 lines each:

 $2 \times 8 = 16$ 

- 19. Describe the structure and life cycle of Ascaris lumbricoides with the help of a neat labelled diagram.
- 20. Describe the respiratory system of Cockroach with the help of neat labelled diagram.
- 21. List out the major air pollutants and describe their effects on human beings.