131

T

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

Regd.				1						
No.	10									

## 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. Define the term histology. What is it otherwise called?
- Radial symmetry is an advantage to the sessile or slow moving organisms. Justify this statement.
- Distinguish between a tendon and a ligament.
- 4. What is the haematocrit value?
- Distinguish between amphids and phasmids.

- 6. What are pneumatic bones? How do they help birds?
- 7. List any two differences between a flagellum and a cilium.
- 8. Why do we refer to the offspring, formed by asexual method of reproduction, a clone?
- The eggs of Ascaris are called 'Mammillated eggs'. Justify.
- 10. What is cyclomorphosis? Explain its importance in Daphnia.

## SECTION - B

Note: Answer any six questions in 20 lines each.

 $6 \times 4 = 24$ 

- 11. Explain in brief 'Biodiversity Hot Spots'.
- 12. Describe the structure of a multipolar neuron.
- 13. What are the salient features of the echinoids?
- 14. List out eight characteristics that help distinguish a fish from the other vertebrates.
- 15. Give an account of pseudopodia.
- 16. What are the adverse effects of tobacco?
- 17. Draw a neat and labelled diagram of the salivary apparatus of cockroach.
- 18. What are the deleterious effects of depletion of ozone in the stratosphere?

## 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.
- Describe the respiratory system of cockroach with the help of neat and labelled diagrams.
- Describe different types of food chains that exist in an ecosystem.