Total No. of Questions-21

Total No. of Printed Pages-2	Regd. No.	-

Part III

ZOOLOGY

Paper I

(English Version)

Time: 3 Hours

Max. Marks: 60

Note :- Read the following instructions carefully :

- (i) Answer ALL the questions of Section A. Answer any SIX questions in Section B and answer any TWO questions in Section C.
- (ii) In Section A, questions from Sl. No. 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.
- (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) Draw labelled diagrams wherever necessary in Sections B and C. SECTION-A 10×2=20

Note :- Answer ALL the questions in 5 lines each.

- 1. What is meant by tautonymy? Give two examples.
- 2. What is Cephalization? How is it useful to its possessors?
- 3. Distinguish between a tendon and a ligament.
- 4. What is the haematocrit value?
- 5. What is Aristotle's Lantern? Give one example of an animal possessing it.
- 6. What are pneumatic bones? How do they help birds?
- 7. Distinguish between lobopodium and filopodium. Give an example to each of them.
- 8. What are dynein armes? What is their significance?
- 9. In which way does tobacco affect the respiration? Name the alkaloid found in tobacco.
- 10. Define commensalism. Give one example.

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Note :- Answer any SIX questions each in 20 lines.

- 11. Explain "Rivet popper" hypothesis.
- 12. Explain Haversian system.
- 13. What are the chief characters of the crustaceans?
- 14. Compare and contrast cartilaginous and bony fishes.
- 15. Describe the process of transverse binary fission in paramecium.
- 16. What is the need for parasites to develop special adaptations developed by 'the parasites.
- 17. Draw a neat labelled diagram of the mouthparts of Cockroach.
- 18. Describe 'Greenhouse Effect'.

SECTION-C

 $2 \times 8 = 16$

Note: Answer any TWO questions in 60 lines each.

- 19. Describe the structure and life cycle of Ascaris lumbricoides with the help of a neat and labelled diagram.
- 20. Describe the blood circulatory system of periplaneta in detail and draw a neat and labelled diagram of it.
- 21. Describe different types of food chains that exist in an ecosystem.