

Total No. of Questions—21

Total No. of Printed Pages—2

Regd. No.

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**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 biogenesis ?
2. What is monaxial heteropolar symmetry ? Name the group of animals in which it is the principal symmetry.
3. Distinguish between exocrine and endocrine glands with examples.
4. What is a Sesamoid bone ? Give an example.
5. What is metagenesis ? Animals belonging to which phylum exhibit metagenesis ?
6. What are claspers ? Which group of fishes possesses them ?



7. Draw a labelled diagram of T.S. of flagellum.
8. Distinguish between Proter and Opisthe.
9. Define parasitism and justify this term.
10. What is BOD ?

### SECTION-B

6×4=24

**Note** :— Answer any SIX questions each in 20 lines.

11. What is the evil quartet ?
12. Describe the *three* types of cartilage.
13. Compare briefly a centipede and a millipede.
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. What in adolescence is considered vulnerable phase ?
17. Draw a neat labelled diagram of the mouth parts of cockroach.
18. What is summer stratification ? Explain.

### SECTION-C

2×8=16

**Note** :— Answer any TWO questions in 60 lines each.

19. Explain the structure of life cycle of *Entamoeba histolytica* with the help of neat and labelled diagrams.
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.