

3 (Sem-1) ZOO M 2 (O)

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ZOOLOGY

(Major)

Paper : 1·2

[Animal Diversity (Non-chordates)]

Full Marks : 60

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following questions : 1×7=7
- (a) Write the infective stage of plasmodium to man.
 - (b) Name the cells which help in maintaining a current of water through Poriferan body.
 - (c) Name two animal phyla with radial symmetry.
 - (d) How is a tapeworm attached to the host's intestine?
 - (e) What do you mean by sanguivorous mode of feeding?

(2)

- (f) Name a segmented mollusc.
- (g) Classify the silverfish up to class.
2. Answer the following questions : $2 \times 4 = 8$
- (a) Write a short note on the feeding mechanism of amoeba.
- (b) How do the terms 'corallum' and 'corallite' differ?
- (c) Write the significance of *Peripatus* in evolution.
- (d) Draw a neat labelled diagram of Bipinnaria larva.
3. Answer any three of the following questions : $5 \times 3 = 15$
- (a) Describe the mechanism of formation of coral reef. 5
- (b) Write about the parasitic adaptation in Helminthes. 5
- (c) Give an account of the structure of trochophore larva. Discuss its evolutionary significances. $3 + 2 = 5$
- (d) Describe the thoracic appendages of *Palaemon* with neat labelled diagram. $4 + 1 = 5$
- (e) Write a short note on Radula. 5

(3)

4. Answer any three of the following questions : $10 \times 3 = 30$
- (a) Give a brief account of the modes of reproduction in Protozoa. 10
- (b) Write about the canal system in Porifera. Mention its significance. $7 + 3 = 10$
- (c) What do you mean by polymorphism? Give an account on polymorphism in Siphonophora. $2 + 8 = 10$
- (d) Describe the life history of *Ascaris*. 10
- (e) Write the general characters of phylum Mollusca and classify it up to classes with examples. $5 + 5 = 10$
- (f) Discuss the water vascular system and its importance in Echinodermata. $8 + 2 = 10$
