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ZOOLOGY

(Major)

Paper : 1.2

[Animal Diversity (Non-Chordate)]

Full Marks : 60

Time : 2½ hours

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

1. Answer the following questions : 1×7=7

   (a) Name a symbiotic protozoa.

   (b) Which sponge is commonly known as glass-rope sponge?

   (c) What is mesoglea?

   (d) What is hexacanth?

   (e) Define cliteller region.

   (f) What is green gland?

   (g) Name the larval form of Asterias.

2. Answer the following questions : 2×4=8

(a) Write a short note on feeding mechanism of *Paramecium*.

(b) What are the different types of spicules found in sponge?

(c) Write about the general organization of *Peripatus*.

(d) Write a brief note on segmentation of sanguivorous Annelida.

3. Answer any *three* questions : 5×3=15

(a) Describe the typical ambulacral system in Echinodermata.

(b) What is parasitism? Write on the parasitic adaptation in *Fasciola*.

(c) Write on the functions of abdominal appendages of prawn.

(d) What are the different parts of digestive system of *Pila*? Describe their functions.

(e) Write on the structural peculiarities of trochophore larva of Annelida.

4. (a) What is canal system? Discuss various types of canal system found in sponge. 3+7=10

Or

(b) What is alternation of generation? Describe the process takes place in Coelenterata. 10

(c) What do you understand by primary and intermediate host? Describe the life history of tapeworm. 2+8=10

Or

(d) Classify the subphylum Mandibulata of Arthropoda up to the order with examples. 8+2=10

(e) What is haemocoelomic system? Discuss the haemocoelomic system in Hirudinaria. 5+5=10

Or

(f) Give an account of torsion and detorsion in Gastropoda. 5+5=10

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