

2016

ZOOLOGY

( Major )

Paper : 1-2

[ **Animal Diversity (Invertebrates)** ]

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 name of a shelled Protozoa.
- (b) Give the function of choanocytes in Porifera.
- (c) In Prawn, where is statocyst present?
- (d) Write the scientific name of a monogenetic parasite.
- (e) Which class of Mollusca shows tendency towards a closed circulatory system?

(f) Give one function of coelomic fluid of Annelida.

(g) How many segments are present in walking legs of a typical insect?

2. Answer the following questions :  $2 \times 4 = 8$

(a) Write the significance of tube feet in Echinodermata.

(b) Write a note on Glochidium larva.

(c) Give the function and structural peculiarities of a hexacanth larva.

(d) Mention the role of gonangium in Coelenterata.

3. Answer any *three* questions :  $5 \times 3 = 15$

(a) Write on the alternation of generation in Coelenterata with example.

(b) Discuss the holozoic nutrition in Protozoa.

(c) State the economic importance of Mollusca.

(d) Discuss the structure of Fasciola.

(e) Define parasitism and write on the parasitic adaptation of tapeworm.

4. (a) Define canal system. Give an account of canal system in Porifera. 2+8=10

Or

- (b) Write on the modes of locomotion in Protozoa with examples. 10

- (c) What is coral reef? Discuss the formation of coral reef. 2+8=10

Or

- (d) Give details of the life cycle and pathogenicity and prophylaxis measures of *Wuchereria bancrofti*. 6+2+2=10

- (e) Classify the phylum Arthropoda with special reference to sub-phylum Mandibulata up to order with examples. 10

Or

- (f) Write the distinct characteristics of phylum Echinodermata. Write a note on the larval forms of Echinodermata. 5+5=10

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