7/12/19 M

This question paper contains 4 printed pages]

Roll No. | | | | | | | | | | | |

S. No. of Question Paper : **7511**

Unique Paper Code : **32231101** **J**

Name of the Paper : **Non-Chordates I : Protists to Pseudocoelomates**

Name of the Course : **B.Sc. (H) Zoology (OC)**

Semester : **I**

Duration : **3 Hours** Maximum Marks : **75**

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt *Five* questions in all including Question No. **1** which is compulsory.

1. (*a*) Define the following terms : 6

(*i*) Protista

(*ii*) Pseudocoelom

(*iii*) Autogamy

(*iv*) Apolysis

(*v*) Polymorphism

(*vi*) Corals.

P.T.O.

(*b*) Differentiate between any *five* : 10

(*i*) Radiata and Bilateria

(*ii*) Primary host and secondary host

(*iii*) Cilia and Flagella

(*iv*) Cercaria and metacercaria

(*v*) Telogonic and hologonic gonads

(*vi*) Dactylozooids and Gonozooids.

(*c*) Mention the significance of the following : 6

(*i*) Trichocyst

(*ii*) Mehlis gland

(*iii*) Choanocytes

(*iv*) Pneumatophore

(*v*) Apolysis

(*vi*) Intermediate host.

(*d*) Fill in the blanks : 5

(*i*) Tetranucleate cysts are the infective stage of ..... .

(*ii*) Coelom that arises from larval archenteron ..... .

(*iii*) Larval stage of *Fasciola hepatica* infective to sheep is ..... .

(*iv*) Skeleton of a solitary coral is called ..... .

(*v*) Sensory cells present on the tentacle of Ctenophores are called ..... .

2. (*a*) With suitable diagrams describe the leuconoid type of canal system in Porifera. 6

(*b*) Describe different type of zooids in a polymorphic colony of Cnidaria. 6

3. (*a*) Explain the life cycle of *Entamoeba histolytica* with the help of labeled diagrams. 6

(*b*) Discuss the evolutionary significance of Ctenophora. 6

4. Diagrammatically explain the life cycle of *Ascaris lumbricoides*. Add a note on its pathogenesis. 12

5. (*a*) Discuss various larval forms of *Fasciola hepatica*. 8

(*b*) Give an account of pathogenesis associated with *Entamoeba histolytica* infection. 4

P.T.O.

6. (*a*) Give the various theories to explain the origin of Metazoa. 6

(*b*) Explain the developmental stages of *Wuchereria bancrofti* in its hosts. 6

7. Write short notes on any *three* of the following : 4×3=12

(*a*) Taeniasis

(*b*) General characteristics of Phylum Porifera

(*c*) Binary fission in Protista

(*d*) Types of coral reefs.