

7.12.18 (M)



This question paper contains 3 printed pages.

Your Roll No.

Sl. No. of Ques. Paper : 123

I

Unique Paper Code : 32231101

***Name of Paper : Non-chordates I : Protists to
Pseudocoelomates***

Name of Course : B.Sc. (Hons.) Zoology

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. Question No. 1 is compulsory.
Please attempt various parts of a question at one place
only. Draw well labelled diagrams wherever necessary.***

1. (a) Define any five of the following terms:

- (i) Digenetic***
- (ii) Conjugation***
- (iii) Corallite***
- (iv) Encystment***
- (v) Trichocyst***
- (vi) Pseudocoelom.***

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(b) Distinguish between any four of the following:

- (i) Polyp and Medusa***
- (ii) Axopodia and Filopodia***
- (iii) Ostia and Osculum***

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- (iv) Thesocytes and Myocytes
- (v) Silicoblast and Calcoblast. 8
- (c) Give the generic names of any *three* of the following and classify up to classes:
- (i) Mushroom coral
- (ii) Venus' flower basket
- (iii) Liver fluke
- (iv) Jelly Fish. 6
- (d) State the phylum in which it is found and functions of any *four* of the following:
- (i) Flame cell
- (ii) Contractile vacuole
- (iii) Spongin fibres
- (iv) Amphids
- (v) Pyrenoids. 8
2. Give an account of sexual reproduction in protists. Discuss its importance. 12
3. (a) Describe the evolutionary significance of Ctenophora. 6
- (b) Define polymorphism with suitable examples and its significance. 6
4. (a) Describe the leuconoid type of canal system in Porifera with well labelled diagram. 6

- (b) Describe the general characteristics of phylum Cnidaria and classify up to classes with examples. 6
5. Give an account of the life history of *Fasciola hepatica*. Add a note on its pathogenicity. 12
6. Describe the reproduction and life cycle of *Wuchereria bancrofti* or *Ascaris lumbricoides*. Write a note on the diseases caused by this parasite. 12
7. Write a short notes on any *three* of the following:
- (a) Pathogenicity of *E. histolytica*
- (b) Coral Reefs
- (c) Metagenesis in *Obelia*
- (d) Parasitic adaptations in Platyhelminthes
- (e) Locomotion in *Paramecium*. 4×3=12