

This question paper contains 2 printed pages]

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S. No. of Question Paper : 881

Unique Paper Code : 223101

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Name of the Paper : Biodiversity I : Non-Chordata

Name of the Course : B.Sc. Honors 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.

1. (a) Define the following :

1×6

- (i) Laurer's canal
- (ii) Scleroblast
- (iii) Holotrophic nutrition
- (iv) Radial symmetry
- (v) Prosopyle
- (vi) Flame cells.

(b) Give location and function/significance of the following :

2×4

- (i) Pinacocytes
- (ii) Trophozoite stage of *Plasmodium vivax*
- (iii) Stigma in *Euglena*
- (iv) Hexacanth larvae.

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- (c) Distinguish between : 2×4
- (i) Spongocoel and Coelenteron
  - (ii) Miracidium and Metacercaria larvae
  - (iii) Protostomes and Deuterostomes
  - (iv) Schyphozoa and Anthozoa.
- (d) Give the systematic classification of the following (upto class) : 1×5
- (i) Euglena
  - (ii) Glass rope sponge
  - (iii) Jelly fish
  - (iv) Liver fluke
  - (v) Mushroom coral.
2. Draw a well labeled diagram and explain the life cycle of *Plasmodium vivax*. 12
3. (a) Briefly explain the life cycle of *Taenia solium*. 7
- (b) Explain the various theories of locomotion in Sarcodina. 5
4. (a) Give an account of polymorphism in Cnidaria, using suitable diagrams. 8
- (b) Briefly discuss the affinities of Ctenophora. 4
5. Describe the life cycle of *Wuchereria bancrofti*. Add a note on its pathogenicity. 12
6. (a) Define metamerism. Explain the evolution of metamerism in metazoa. 9
- (b) Briefly discuss about spicules in sponges. 3
7. Write short notes on any *three* of the following : 4×3
- (i) Leuconoid canal system
  - (ii) Autogamy
  - (iii) Coral reefs
  - (iv) Metagenesis
  - (v) Ascariasis.