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3 (Sem-1/CBCS) ZOO HC 1

2024

**ZOOLOGY**

(Honours Core)

Paper : ZOO-HC-1016

**[Non-Chordates-I  
(Protists to Pseudocoelomates)]**

Full Marks : 60

Time : Three hours

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

1. Choose the correct answer :  $1 \times 7 = 7$
- (a) Locomotory organs in phylum Protista/  
Protozoa are :
- (i) Pseudopodia
  - (ii) Cilia
  - (iii) Flagella
  - (iv) All of the above

Contd.

- (b) The first animal having multi-cellular organism is :
- (i) Protista/Protozoa
  - (ii) Coelenterata/Cnidaria
  - (iii) Porifera
  - (iv) Platyhelminthes
- (c) A special cell present in the body wall of cnidarian coelenterates, is called :
- (i) Gonoduct
  - (ii) Cnidoblast
  - (iii) Diploblast
  - (iv) Mesoglea
- (d) The common name of *Taenia solium* is :
- (i) Liver fluke
  - (ii) Pork tapeworm
  - (iii) screw worm
  - (iv) Roundworm
- (e) Aschelminthes are mostly :
- (i) Monoecious
  - (ii) Dioecious
  - (iii) Asexual
  - (iv) All of the above

(f) Presence of flame cell is a characteristic of :

- (i) Cnidaria
- (ii) Platyhelminthes
- (iii) Porifera
- (iv) Protista

(g) Spicules are found in :

- (i) Protozoa
- (ii) Porifera
- (iii) Coelenterata
- (iv) Platyhelminthes

2. Write very short answer : 2×4=8

- (a) Define codon.
- (b) Define atoll with proper diagram.
- (c) What is conjugation in Protozoa ?
- (d) Write the characteristics of polyps.

3. Write short notes on : **(any three)** 5×3=15

- (a) General characteristics of Porifera
- (b) Evolutionary significance of Ctenophora
- (c) Coral reef

- (d) Difference between radial symmetry and bilateral symmetry
- (e) Parasitic adaptation in helminthes
4. (a) Write the life history of Plasmodium vivax with a note on Pathogenicity.  
7+3=10

**Or**

- (b) Write the life history of Entamoeba histolytica with a note on Pathogenicity.  
7+3=10
5. (a) Describe the different types of reproduction in Paramecium. 10

**Or**

- (b) What is canal system ? Write briefly the canal system in sponges. 2+8=10
6. What is polymorphism ? Write briefly with suitable diagram the different polymorphic forms in cnidarian colonies. 2+8=10

**Or**

Write the life history of Fasciola hepatica with proper illustrations. 10