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3 (Sem-1/CBCS) ZOO HC 1

2023

ZOOLOGY

(Honours Core)

Paper : ZOO-HC-1016

(Non-Chordates-I)

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) Sexual phase of Plasmodium occurs in—
- (i) Salivary gland of Mosquito
 - (ii) Blood of Man
 - (iii) Gut of Mosquito
 - (iv) Liver of Man

Contd.

- (b) Flagellated cell in sponges are called
- (i) Pinacocytes
 - (ii) Choanocytes
 - (iii) Porocytes
 - (iv) Thesocytes
- (c) Planula larva is the larval form of
- (i) Porifera
 - (ii) Cnidaria/Coelenterata
 - (iii) Mollusca
 - (iv) Echinodermata
- (d) The common name of *Taenia solium* is
- (i) Liver fluke
 - (ii) Pork tapeworm
 - (iii) Screw worm
 - (iv) Round worm
- (e) Elephantiasis is caused by
- (i) Ascaris
 - (ii) Taenia
 - (iii) Wuchereria
 - (iv) Schistosoma
- (f) Intermediate host in the life cycle of *Fasciola hepatica* is
- (i) Pig
 - (ii) Snail
 - (iii) Crab
 - (iv) Rat flea

(g) Polymorphism is exhibited by individuals of phylum

(i) Porifera

(ii) Ctenophora

(iii) Cnidaria

(iv) Protista

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

(a) Describe shortly about the Atoll with proper diagram.

(b) What is Ostia? Write about the functions of Ostia.

(c) Write about the gonozooids with its functions.

(d) Name the causative organism of Amoebic dysentery and write its symptoms.

3. Write short notes on : **(any three)**

$5 \times 3 = 15$

(a) Binary fission in Paramecium

(b) Nutrition in Amoeba

(c) Evolutionary significance of Ctenophora

(d) Erythrocytic cycle of plasmodium

(e) Metagenesis in Obelia

4. (a) Enumerate the general characteristics of phylum porifera. Write a brief account of the canal system in Sycon. 5+5=10

Or

- (b) Write the general characteristics and classifications of Phylum Platyhelminthes upto classes with examples. 5+5=10

5. (a) What are coral reefs? Mention the mechanism of origin and formation of coral reefs with its significance. 2+8=10

Or

- (b) Describe the life cycle and pathogenecity of *Ascaris lumbricoides* with diagram. 8+2=10

6. (a) What are parasites? Write a brief account on the parasitic adaptation in Helminths. 2+8=10

Or

- (b) Write a note on the evolution of symmetry and segmentation of Metazoa. 10