Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – March 2021
I Semester

Class : I UG **Time : 3 Hours**
Major : Zoology **Max. Marks: 100**

18BZOC01 Invertebrata I

Part A **10 x 1 = 10**
Choose the Correct Answer

1. In *Paramecium*, osmoregulation occurs through
   a. body surface b. pseudopodia
   c. nucleus d. contractile vacuole

2. In *Paramecium,* food is ingested through
   a. cytoproct b. cytopyge
   c. cytosome d.cytopharynx

3. Animals lacking excretory, respiratory and circulatory structures are
   a. Sponges b. Tapeworms
   c. Liver fluke d. Threadworms

4. Flagellated cells, which line the spongocoel in Poriferans are known as
   a. ostia b. mesenchymal cells
   c. choanocytes d. oscula

5. A characteristic feature, which is present only in the phylum Coelenterata is
   a. nematocysts b. flame cells
   c. hermaphroditism d. polymorphism

6. The characteristic larva in Coelenterates is
   a. Oncosphere b. Rhabditiform
   c. Planula d. Cysticercus

7. This is an example of bilaterally symmetrical and triploblastic animal
   a. Cnidarians b. Sponges
   c. Ctenophores d. Round worms

8. Animals belonging to Platyhelminthes are also called flatworms because
   a. Their head is flat
   b. They have dorsoventrally compressed body
   c. They creep over the surface
   d. The alimentary canal is flattened

9. This is the basis on which female *Ascaris* can be identified.
   a. Two spicules found at the posterior end
   b. Presence of postanal and preanal papillae
   c. Straight posterior end
   d. Common cloacal aperture

10. In flatworms excretion is performed by
   a. protonephridia b. flame cells
   c. green glands d. malpighian tubules

Part B **5 x 6 = 30**

Answer ALL questions

Each answer should not exceed 400 words or two pages

11.a. Explain the outline classification of animals.

(or)

11.b. Describe the external features of *Paramecium caudatum* with a labelled diagram.

12.a. Explain the mechanism of feeding and digestion in *Leucosolenia.*

(or)

12.b. Enlist the economic importance of sponges.

13.a. List the general characteristics of Phylum Coelenterata.

(or)

13.b. Describe the histology of *Obelia* colony.

14.a. With a neat labelled sketch explain the structure of *Fasciola* hepatica.

(or)

14.b. Classify phylum Platyhelminthes upto class level with examples.

15.a. Describe the external features of *Ascaris.*

(or)

15.b. List the general characteristics of Phylum Aschelminthes.

Part C **5 x 12 = 60**

Answer ALL questions

Each answer should not exceed 800 words or fourpages

16.a.Compare and differentiate between asexual reproduction and sexual reproduction in *Paramecium.*

(or)

16.b. How does conjugation occur in *Paramecium*? Add a note on its significance.

17.a. Give an account of the canal system in sponges.

(or)

17.b. How does *Leucosolenia*reproduce? Add a note on its development also.

18.a. Explain the types of zooids in a polymorphic colony of coelenterates.

(or)

18.b. Describe the theories explaining the formation of coral reefs.

19.a. Explain the life cycle of *Fasciola hepatica.*

(or)

19.b. Describe the structure, body wall and excretory system of *Fasciola hepatica.*

20.a. Write notes on the parasitic adaptation in Helminthes.

(or)

20.b. Write an essay on nematode parasites of man.

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