

CORE-I (NON-CHORDATES I: PROTISTA TO PSEUDOCOELOMATES)

Answer the following questions [1 marks]

1. A sponge can be distinguished from other animals by the presence of

- a) Hollow body
- b) coelenteron
- c) choanocytes
- d) dermal papillae

2. Animal of phylum Porifera are characterised by

- a) Diploblastic organisation
- b) canal system
- c) coelom
- d) coelenteron

3. Larva of sponge is known as

- a) planula larva
- b) trochophore larva
- c) glochidium larva
- d) amphiblastula larva

4. Gemmules are helpful in

- a) digestion
- b) sexual reproduction
- c) Secretion of spicules
- d) Survival in drought

5. Most of the sponges are

- a) solitary
- b) colonial
- c) fresh water forms
- d) cold water inhabitants

6. Choanocytes in sponges are present

- a) on the external body surface
- b) line the gastric cavity
- c) in the mesodermal layer
- d) located between the outer and inner layers

7. Sycon belong to the class

- a) Calcarea
- b) porifera
- c) Desmospongia
- d) Hexactinellida

8. Bath sponge belongs to the class

- a) porifera

- b) Desmospongia
- c) Hexactinellida
- d) Calcarea

9. Parazoa includes

- a) Cnidaria
- b) Acidaria
- c) Porifera
- d) None of these

10. Most common method of reproduction in sponges is

- a) binary fission
- b) budding
- c) multiple fission
- d) sexual reproduction

11. Skeleton of sponges is produced by

- a) Pinacocytes
- b) thescocytes
- c) choanocytes
- d) sclerocytes

12. The only fresh water species of sponges is

- a) Scypha
- b) Euspongia
- c) Spongilla
- d) Oscarella

13. Venus's flower basket is a

- a) Sea anemone resembling a flower basket
- b) sponge resembling a flower basket
- c) glass rope sponge
- d) ornamental mollusc

14. Common bath sponge is

- a) Euplectella
- b) Spongilla
- c) Syon
- d) Euspongia

15. Digestion in sponges is

- a) intracellular
- b) intercellular
- c) both a and b
- d) extracellular

Answers:

1- c	2- b	3-d	4-d	5-b
6-b	7-a	8-b	9-c	10-b
11-d	12-c	13-b	14-d	15-a

Answer the following questions in 2-3 sentences [1.5 marks]

1. Differentiate between protozoa and metazoa.
2. Give the organs of adhesion in flatworms.
3. How parasites protect themselves from the action of digestive juices of host?
4. State about Turbellaria.
5. Give the characters of Trematoda.
6. Write about Cestode.
7. What is a bladderworm?
8. Give some symptoms of Cestodiasis.
9. What is Liver rot?
10. Give some parasitic adaptations of *Fasciola*.
11. Give the classes of Platyhelminthes with examples.
12. What are the diseases caused by helminths?
13. Name the three types of coral reefs.
14. What are spicules in sponges?
15. What is the significance of canal system in sponges?
16. State about the locomotory organs in Protista.
17. What is ascon type canal system?
18. Give the course of water current in leucon type canal system.
19. Write a short note on sycon type canal system.
20. State about amoebiasis.

Answer the following questions in 75-100 words [2 marks]

1. Give the general characters of Nematelminthes.
2. What are the different classes of Nematelminthes? Give examples.
3. State about the pathogenicity of *Ascaris lumbricoides*.
4. Write a short note on Filariasis.
5. State any two morphological parasitic adaptations in helminthes.
6. State any two physiological parasitic adaptations in helminthes.
7. Give the general characters of Platyhelminthes.
8. Give the general characters of protozoa.
9. State about the pathogenicity of *Fasciola hepatica*.
10. Give the pathogenicity of *Taenia solium*.
11. Write the general characters of Cnidaria.
12. Write the general characters of Ctenophora.
13. What do you mean by metagenesis in obelia?

14. Define polymorphism in Cnidaria.
15. Give the different modifications of polyp forms.
16. What are the different modifications of medusa forms?
17. State about the significance of polymorphism in Coelenterates.
18. What are coral reefs?
19. Give some growth conditions for coral reefs.
20. What is the significance of coral reefs.
21. Give the evolutionary significance of Ctenophora.

Answer the following questions within 500 words [6 marks]

1. Give the general characters of Protista and Porifera.
2. Classify Porifera upto classes.
3. Write a short note on Euglena.
4. Write a short note on Amoeba.
5. Describe about locomotion and reproduction in Protista.
6. Give the life cycle and pathogenicity of *Plasmodium vivax*.
7. Give the life cycle and pathogenicity of *Entamoeba histolytica*.
8. State about spicules in Sponges.
9. What do you understand by canal system in sponges?
10. Elaborate about metagenesis in obelia.
11. Write the general characters and classification upto classes in Cnidaria.
12. Write the general characters and classification upto classes in Ctenophora.
13. What is polymorphism in Cnidaria?
14. What are corals and coral reefs? Describe.
15. Give the general characters and classification upto classes in Platyhelminthes.
16. State about the life cycle and pathogenicity of Fasciola hepatica.
17. State about the life cycle and pathogenicity of Taenia solium.
18. State about Parasitic adaptations in helminthes.
19. Give the life cycle and pathogenicity of *Ascaris lumbricoides*.
20. Give the life cycle and pathogenicity of *Wuchereria bancrofti*.