

PAPER -101(ANIMAL DIVERSITY: NON-CHORDATES & CHORDATES)

1. Answer the following questions.

[1 mark]

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

2. Answer the following questions within 2-3 sentences.

[1.5 mark]

1. Name the disease caused by *Entamoeba histolytica*. Also mention the mode of its transmission.
2. Give the symptoms of leishmaniasis.
3. Name some species of Plasmodium that causes malaria.
4. Name the protozoan that causes diarrhoea . Also state the mode of infection.
5. What is canal system in sponges?
6. Give the course of water current in asconoid type canal system .
7. Name different type of canal system found in sponges along with examples.
8. What is coral reef ?
9. What is trimorphism in coelenterate ?
10. Define dimorphism giving suitable examples.
11. Write short note on polyp and medusa .
12. Describe briefly about Taeniasis.
13. Give the significance of metamerism in annelids.
14. What is ommatidia ?
15. Define torsion in gastropoda .
16. What is water vascular system in echinoderms ?
17. Give a brief account on reproduction in echinoderms.
18. Mention 3 subphyla of protochordata.
19. Name accessory respiratory organs in fishes.
20. What is photophore ?
21. What are characteristics of mammalian dentition.
22. Mention general characters of Prototheria.
23. State some features of metatheria.
24. Mention flight adaptations in birds.
25. Why do birds have pneumatic bones ?

3. Answer the following questions within 75-100 words.

[2 marks]

1. Give the symptoms of Amoebiasis.
2. Write a short note on trypanosomiasis.
3. Give some measures for prevention and control of protozoan diseases.
4. Name some protozoan diseases.
5. What is the significance of canal system in sponges.
6. Give the course of water current in syconoid type canal system.

7. Give the course of water current in lueconoid type canal system.
8. Give the significance of coral reef.
9. What are the different types of coral reefs ?
10. What is polymorphism in coelenterata ?
11. What is the importance of polymorphism in caelenterata ?
12. What are gastrozooids and gonozooids ?
13. State about the disease caused by helminth parasites – Taenia and Ancylostoma ?
14. What type of metamerism is found in annelids ?
15. What are the characteristics feature of metamerism in annelids ?
16. What are the two types of vision in insect eyes?
17. What is photopic and scotopic vision ?
18. What is significance of torsion in gastropods ?
19. What are the function of watervascular system in echinoderms ?
20. Name the different larval forms in echinoderms .
21. Give some general characters of Urochordata .
22. Give a brief account on cyclostome .
23. Give some general features of Hemichordata .
24. Give some general features of Protochordata.
25. Mention some features of Cephalochordata.

4. Answer the following questions within 500 words.

[6marks]

1. What are the different protozoan diseases in Man ?
2. Describe canal system in sponges .
3. Write a short note on the formation of coral reef and its significance .
4. What do you understand by polymorphism in coelenterates ?
5. Give an account on helminth parasites – Taenia and Ancylostoma .
6. Write about metamerism and segmentation in annelids .
7. Give a detailed account on insect vision.
8. What is torsion in gastropods ?
9. Elaborate nervous system in Cephalopods.
10. Write about water vascular system in Echinoderms .
11. Explain reproduction and development in Echinoderms with evolutionary significance .
12. Write the general characters and affinities of Cyclostoma.
13. What are the general characters and interrelationship of Protochordates.
14. What are accessory respiratory organs in fishes ?
15. Write short note on luminous organs in fishes.
16. Give an account on origin and ancestry of Amphibia.
17. Explain adaptive radiation in reptiles.
18. Classify reptiles based on their skull pattern.
19. What are the different flight adaptations in birds ?
20. Give the general characters of Prototheria & Metatheria .
21. Explain the adaptive radiation in Mammals.
22. Give a detailed account on dentition in mammals.