

ANEKANT EDUCATION SOCIETY'S
TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND COMMERCE
AUTONOMOUS INSTITUTE

QUESTION BANK

Class: F.Y.B.Sc. (Semester – I)

Paper Code: ZOO: 1101

Paper: I - Animal Systematics and Diversity- I

Credit: 2

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Multiple Choice Questions

1. Linnaeus is credited with introducing.....
 - a) Concept of inheritance.
 - b) Theory of heredity.
 - c) Binomial nomenclature.
 - d) Fluid mosaic model

2. Kingdom Eubacteria consist of.....
 - a) Prokaryotes
 - b) Eukaryotes
 - c) Fungi
 - d) Archaeobacteria

3. Which of following are locomotory organs of protozoans?
1. Flagella 2. Cilia 3. Pseudopodia 4. Setae
 - a) 1 & 2
 - b) 2 & 3
 - c) 2, 3 & 4
 - d) 1, 2 & 3

4. Which of the following is unicellular & microscopic animal?
 - a) Paramecium
 - b) Hydra
 - c) Liverfluke
 - d) Planaria

5. Presence of is characteristic of Phylum Porifera.
 - a) Nematocysts

- b) Coelom
- c) Coelenteron
- d) Canal system

6. Gemmules are helpful in.....

- a) Digestion
- b) Sexual reproduction
- c) Survival in draught
- d) Secretion of spicules

7. Bath sponges belong to class.....

- a) Porifera
- b) Desmospongia
- c) Hexactinellida
- d) Calcaria

8. Phylum..... consists of specialised cells called as nematocyst.

- a) Mollusca
- b) Annelida
- c) Porifera
- d) Cnidaria

9. Which class of the phylum Cnidaria includes corals?

- a) Hydrozoa
- b) Scyphozoa
- c) Anthozoa
- d) Cubozoa

10. Sea anemone is.....

- a) Diploblastic, bilaterally symmetrical
- b) Triploblastic, bilaterally symmetrical
- c) Triploblastic, radially symmetrical
- d) Diploblastic, radially symmetrical

11. Which of the following is unicellular and microscopic?

- a) *Paramecium*
- b) *Hydra*
- c) *Fasciola*

d) *Euplectella*

12. In *Paramecium*, nutrition is.....

- a) Holophytic
- b) Saprophytic
- c) Holozoic
- d) Mixed

13. Skeleton of sponges consists of

- a) spicules and spongin fibres
- b) Bones
- c) Cartilage
- d) Ossicles

14. Animal having two embryonic germ layers belongs to the phylum -

- a) Only Porifera
- b) Porifera and Cnidaria
- c) Only Cnidaria
- d) Platyhelminthes and onwards all phyla.

15. Which class of the Cnidaria includes Corals?

- a) Hydrozoa
- b) Scyphozoa
- c) Anthozoa
- d) Cubozoa

16. Regeneration power is present in

- a) Hydra, Planaria, Sea star
- b) Planaria, Pila, Grass hopper
- c) Sea star, Bivalve, Earthworm
- d) Earthworm, Hydra, Cockroach

17. Members of which class of phylum Platyhelminthes are non-parasitic?

- a) Trematoda
- b) Cestoda

- c) Turbellaria
- d) Calcarea

18. Acoelomate animals are present in which phylum

- a) Platyhelminthes
- b) Aschelminthes
- c) Annelida
- d) Echinodermata

19. Nematodes are.....

- a) Acoelomate, diploblastic
- b) Coelomate, triploblastic
- c) Pseudocoelomate, diploblastic
- d) Pseudocoelomate, triploblastic

20. Which of the following is characteristic of Echinoderms?

- a) Presence of water vascular system
- b) Presence of nervous system
- c) Presence of complete digestive system
- d) None of the above

21. Pearl oyster belongs to phylum -- -- -- --

- a) Mollusca
- b) Echinodermata
- c) Annelida
- d) Platyhelminthes

DEFINE/EXPLAIN

1. Genus
2. Species
3. Systematics
4. Pellicle
5. Radial symmetry
6. Polyp

7. Holozoic nutrition
8. Cytostome
9. Gastrozoid
10. Spongocoel
11. Osculum
12. Diploblastic Animal
13. Water canal system
14. Spicule
15. Ctenidia
16. Spermatheca
17. Bioluminescence
18. Vermiculture
19. Hermaphrodite
20. Platyhelminthes
21. Trachae
22. Cnidoblast

SHORT ANSWER QUESTIONS

NOTE: DRAW NEAT LABELED DIAGRAM WHEREVER NECESSARY

1. State distinctive characters of class Hydrozoa.
2. Explain setae as locomotory organ of Earthworm
3. State distinctive characters of class Trematoda.
4. Explain sense organs of Earthworm.
5. Explain important species of Earthworm for Vermiculture.
6. State distinctive characters of class Hexactinellida.
7. Explain body wall of Earthworm.
8. Explain taxonomic categories of classification.
9. State general characters of phylum Protozoa.
10. Give diagnostic features of kingdom Protista.
11. State distinctive characters of class Crustacea.
12. Explain regeneration in Planaria.
13. Explain Vermiculture.
14. Explain Excretory system of Earthworm.
15. State distinctive characters of class Cephalopoda.
16. Explain vermiculture products.
17. Explain hydraulic skeleton of Earthworm
18. State general characters of Echinodermata.

WRITE SHORT NOTE ON

NOTE: DRAW NEAT LABELED DIAGRAM WHEREVER NECESSARY

1. Diagnostic features of kingdom Animalia.
2. Binomial Nomenclature.
3. General characters of class Calcarea.
4. General characters of class Scyphozoa.
5. Give distinguishing characters of phylum Protozoa.
6. Distinguishing characters of phylum Annelida.
7. General characters of class Cestoda.
8. Distinguishing characters of phylum Aschelminthes.
9. General characters of class Insecta.
10. Distinguishing characters of Gastropoda.
11. General characters of class Asteroidea
12. Structure of Septal nephridia.
13. Economic importance of earthworm.
14. Functions of body wall in earthworm.
15. Nervous system of earthworm.
16. Sponge fishery and its importance.
17. Bioluminescence in Protozoa.
18. Specialised stinging cells in Cnidaria/Coelenterata.
19. Economical and Ecological importance of vermiculture.
20. Sketch & label septal nephridia
21. Sketch & label reproductive System of earthworm.
22. Sketch & label Nervous system of earthworm.

LONG ANSWER QUESTIONS

NOTE: DRAW NEAT LABELED DIAGRAM WHEREVER NECESSARY

1. Describe six kingdom classification system.
2. State distinguishing characters of phylum Porifera. Give names of classes with two examples of each.
3. Discuss on “Earthworm is the friend of farmer”
4. Give account of digestive system of Earthworm. Add note on food, feeding and digestion.

5. State distinguishing characters of phylum Coelenterata. Give names of classes with two examples of each.
6. Discuss on “Role of Arthropods in ecosystem”
7. Describe ‘large scale vermiculture’.
8. State distinguishing characters of phylum Platyhelminthes. Give names of classes with two examples of each.
9. Give account of reproductive system of Earthworm .Add note on cocoon formation.
10. State distinguishing characters of phylum Arthropoda. Give names of classes with two examples of each.
11. Discuss on “How do humans affect biodiversity &how does it affect humans?”
12. State distinguishing characters of phylum Mollusca. Give names of classes with two examples of each.
13. Explain external characters of Earthworm.
14. Explain taxonomic categories.
- 15 State distinguishing characters of phylum Echinodermata. Give names of classes with two examples of each.
16. Discuss the reasons of decline in population of earthworms in Maharashtra.
17. Describe nervous system of *Pheretima*.