

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

MCQs

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.is a form of reserve food material in fungi.

 - a) Starch
 - b) Lipid
 - c) Glycogen
 - d) Protein

4. All fungi are.....

 - a) Parasites
 - b) Saprophytes
 - c) Autotrophs
 - d) Heterotrophs

5. is characteristic of Phylum Porifera.
- a) Triploblastic
 - 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. Tentacles of hydra are useful in.....
- a) Locomotion
 - b) Food capturing
 - c) Both a and b
 - d) None of the above
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) Chemotrophic

13. Skeleton of sponges consists of

a) spicule and spongin fibre

b) bones

c) cartilage

d) ossicles

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

a) Protozoa

b) Porifera

c) Cnidaria

d) Both b & c

15. Which class of the Cnidaria includes Corals?

a) Hydrozoa

b) Scyphozoa

c) Anthozoa

d) Turbellaria

16. Regeneration power is present in which animal?

a) *Hydra*

b) *Planaria*

- c) Sea star
- d) All of the above

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) None of the above

19. Nematodes are.....

- a) Acoelomate
- b) Coelomate
- c) Pseudocoelomate
- d) None of the above

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. Species
2. Systematics
3. Pellicle
4. Alternation of generation
5. Arthropoda
6. Spongocoel
7. Osculum
8. Diploblastic animal
9. Water canal system
10. Mollusca
11. Ctenidia
12. Spermatheca
13. Nematocyst
14. Vermiculture
15. Medusa
16. Nocturnal
17. Coelomate
18. Metameric segmentation (metamerism)
19. Bilateral symmetry
20. Torsion
21. Radula

WRITE SHORT NOTES

1. Binomial nomenclature
2. Kingdom Animalia
3. Kingdom Protista
4. Taxonomic categories
5. Setae of earthworm
6. Coelom and corpuscles in earthworm

7. Bioluminescence in Protista
8. Sponge fishery and its importance
9. Specialised stinging cells in Cnidaria
10. Sense organ of earthworm
11. Important species in vermiculture
12. Economical and Ecological importance of earthworm
13. Vermiculture products
14. Septal nephridia
15. Nervous system of earthworm
16. Phylum – Protozoa
17. Phylum- Porifera
18. Phylum- Platyhelminthes
19. Phylum- Annelida
20. Phylum- Arthropoda
21. Phylum- Mollusca

SHORT ANSWER QUESTIONS

NOTE: DRAW NEAT LABELED DIAGRAM WHEREVER NECESSARY

1. Distinguishing characters of Eubacteria.
2. State general characters of class Hydrozoa.
3. State general characters of class Schyphozoa.
4. State general characters of class Cestoda.
5. State distinctive characters of phylum Platyhelminthes.
6. State distinctive characters of Oligochaeta.
7. State distinctive characters of Insecta.
8. State distinctive characters of Arachnida.
9. State distinctive characters of Gastropoda.
10. State distinctive characters of Hexactinellida.
11. State distinctive characters of Anthozoa.

- 12.State distinctive characters of Trematoda.
- 13.State distinctive characters of Polychaeta.
- 14.State distinctive characters of Cephalopoda.
- 15.State distinctive characters of Asteroidea.
- 16.Explain Vermiculture.
- 17.Explain body wall of Earthworm.
- 18.Sketch and label nervous system of earthworm.
- 19.Sketch and label female reproductive system of earthworm.
- 20.Sketch and label digestive system of earthworm.

LONG ANSWER QUESTIONS

NOTE: DRAW NEAT LABELED DIAGRAM WHEREVER NECESSARY

1. Describe three domain and six kingdom classification.
2. State distinguishing characters of Phylum Porifera. Give name and characters of classes with one examples of each.
3. State distinguishing characters of Phylum Coelenterata. Give names and characters of classes with one example of each
4. State distinguishing characters of Phylum Platyhelminthes. Give name and characters of classes with one examples of each.
5. State distinguishing characters of Phylum Aschelminthes. Give name and characters of classes with one examples of each.
6. State distinguishing characters of Phylum Annelida. Give name and characters of classes with one examples of each.
7. State distinguishing characters of Phylum Arthropoda. Give name and characters of classes with one examples of each.
8. State distinguishing characters of Phylum Mollusca. Give name and characters of classes with one examples of each.

9. State distinguishing characters of Phylum Echinodermata. Give name and characters of classes with one examples of each.
10. Give account of reproductive system of *Pheretima*. Add note on cocoon formation.
11. Give an account of excretory system of Earthworm. Add a note on physiology of excretion.
12. Describe digestive system of Earthworm. Add a note on physiology of digestion.
13. Discuss symbiotic relationship among animals.
14. How do humans affect biodiversity and how does it affect humans?
15. Explain “Earthworm is friend of farmer”
16. Explain economic importance of Protozoa.
17. Explain regeneration in Hydra/Planaria.
18. Explain applications of Vermicompost.
19. Explain need of classification system.
20. Explain coral reef and its importance.