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Reg. No. : .....

Name : .....



First Semester B.Sc. Degree Examination, January 2024

First Degree Programme under CBCSS

Zoology

Core Course I

ZO 1141 : ANIMAL DIVERSITY - I

(2019 Admission onwards)

Time : 3 Hours

Max. Marks : 80

I. Answer **all** questions in **one** or **two** sentences

1. What is ICZN?
2. Which of the following is a freshwater sponge?
  - (a) *Spongilla*
  - (b) *Euplectella*
  - (c) *Euspongia*
  - (d) *Sycon*

It belongs to which class of Porifera?

3. What are cnidarians? Give an example.
4. Differentiate pedicellariae and madreporite.

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5. Give an example for a free living Platyhelminthes. Name the class it belongs.
6. Which one is known as sea sparkle, in which group it belongs.
7. Give the scientific name of any two of the following:
  - (a) Round worm
  - (b) Pin worm
  - (c) Hook worm
  - (d) Tape worm
8. What is hermaphroditism? Give an example.
9. Comment on sexual dimorphism in Ascaris.
10. What is molecular taxonomy?

(10 × 1 = 10 Marks)

II. Answer any **eight** questions and answer should not exceed one paragraph

11. Define any four of the following:
  - (a) Scleroblast
  - (b) Holotrophic nutrition
  - (c) Acoelomata
  - (d) Prosopyle
  - (e) Flame cells
  - (f) Heteronereis
12. Give location and function/significance of any four of the following:
  - (a) Pinacocytes
  - (b) Spongocoel
  - (c) Mesoglea

- (d) Amoebocytes
  - (e) Spicules
  - (f) Choanocytes
13. Distinguish between any two of the following:
- (a) diploblastic and triploblastic animals
  - (b) Mesozoa and Parazoa
  - (c) Protostomes and Deuterostomes
  - (d) Schyphozoa and Anthozoa
14. What are the types of vision in *Penaeus*?
15. Give an account of five kingdom classification.
16. Describe metagenesis with example.
17. Write notes on polyp and medusa.
18. Give an account on oligochaeta. Give example.
19. Write the summary of the life history of *Fasciola hepatica*?
20. Differentiate bilateral and radial symmetry. Which animal transforms from bilateral to radial symmetry in its history?
21. Define pseudocoel. Notes on its formation, mention example.
22. Give the features of rhabditiform larva of *Ascaris*?

**(8 × 2 = 16 Marks)**

III. Answer any **six** questions and answer should not exceed 120 words

23. Describe the general characters of phylum *Onychophra*. Add notes on its evolutionary significance.
24. Draw a well labelled diagram and explain the life cycle of *Plasmodium vivax*.
25. Write short notes on the general characters of class Cestoda with example.

26. Describe the features indicating the adaptations of leech to lead an ectoparasitic life?
27. Describe the various types of appendages of prawn and its function.
28. Write notes on the different types of skeleton materials found among the members of different classes of sponges.
29. Briefly describe the technology of pearl culture.
30. Explain digestive system in *Penaeus*. Mention the role of gastric mill.
31. Briefly describe the different canal system found in different groups of sponges.

**(6 × 4 = 24 Marks)**

IV. Answer any **two** questions

32. Write an essay on human parasitic nematodes. Discuss the morphology, life history, pathogenicity, and prophylaxis.
33. Describe the features of Phylum Mollusca, classify up to classes, giving salient features and examples. Mention economic importance.
34. Write an essay on pests of coconut. Describe damages caused and its preventive measures.
35. What are corals? How do they form Coral Reefs? Give an account of the various types of Coral Reefs found in the world.

**(2 × 15 = 30 Marks)**