



MAR IVANIOS COLLEGE (AUTONOMOUS)
THIRUVANANTHAPURAM

Reg. No.:

Name:

First Semester B.Sc. Degree Examination, November 2016

First Degree Programme under CBCSS

Core Course: Zoology – I

AUZO141: Animal Diversity I

(Common for **Regular** – 2016 Admn. and **Improvement** – 2015 Admn.)

Time: 3 Hours

Max. Marks: 80

Instruction: Draw diagrams wherever necessary.

SECTION – A

Answer ALL questions in one or two sentences.

1. Differentiate between ostia and osculam.
2. What are compound eyes ?
3. How does a sea cucumber defend itself against predators ?
4. What is Red tide ?
5. What is Heteronereis ?
6. Comment on Bipinnaria larva.
7. What are trichocysts ?
8. Explain sexual dimorphism in prawn.
9. Comment on *Adamsia*.
10. What is metamerism ?

(10 × 1 = 10 Marks)

SECTION – B

Answer any TEN questions, not exceeding a paragraph.

11. Describe Aristotle's lantern.
12. Briefly explain the parasitic adaptations of tape worm.
13. Distinguish between eucoelomata and pseudocoelomata.
14. Why is Physalia considered to be polymorphic ?

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15. Distinguish between radial and bilateral symmetry.
16. Sketch and label the nervous system of *Penaeus*.
17. Write an account on *Sacculina*.
18. What are flame cells? Explain their structure.
19. Why are the earthworms and round worms included in different phyla ?
20. Write any four identifying features of sponges.
21. *Peripatus* is considered as a living fossil. Why ?
22. Write an account on *Ropalura*.
23. Give the names of any two echinoderm larvae.
24. Differentiate between enterocoel and schizocoel.
25. Comment on pedicellaria.

(10 × 2 = 20 Marks)

SECTION – C

Short essay type : Answer any SIX questions.

26. Explain metagenesis in *Obelia*.
27. Briefly explain sericulture.
28. With the help of labeled diagrams, describe the cephalic appendages of *Penaeus*.
29. Give a brief account on five kingdom classification of Whittaker.
30. Assign Paramecium and Balanoglossus to their respective classes, giving reasons.
31. What are corals ? Briefly explain different types of coral reefs.
32. Which organism causes Amoebic dysentery ? Explain its life cycle and pathogenicity
33. Comment on Limulus. Mention its evolutionary significance.
34. Which organism causes African sleeping sickness ? Explain its structure and mode of transmission ?

(6 × 5 = 30 Marks)

SECTION – D

Long essay type : Answer any TWO questions.

35. Classify phylum Mollusca upto classes, giving salient features and one example each.
36. Explain the life history and pathogenicity of *Fasciola*.
37. With suitable diagrams describe the water vascular system in Echinoderms.
38. Explain the life cycle and pathogenicity of *Plasmodium vivax*. Mention its prophylaxis.

(2 × 10 = 20 Marks)

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