



MAR IVANIOS COLLEGE (AUTONOMOUS)
THIRUVANANTHAPURAM

Reg. No. :.....

Name :.....

Third Semester Career Related B.Sc. Degree Examination, November 2016

First Degree Programme under CBCSS

Vocational Course – III: Biotechnology (for Botany and Biotechnology)

AUBB351: Protista and Animal Diversity

(for 2014 Admissions – Improvement Only)

Time: 3 Hours

Max. Marks: 80

SECTION – A

Answer ALL the following in a word or one or two sentences.

1. Radula
2. Retrogressive metamorphosis
3. Triploblastic
4. Uropods
5. Parenchymula
6. Contractile vacuoles
7. Baleen
8. Cephalisation
9. Strobilation
10. Flame cell

(10 × 1 = 10 Marks)

SECTION – B

Answer any EIGHT questions, not exceeding a paragraph.

11. What are the morphological peculiarities of ophiothrix ?
12. Give the salient features of phylum Nematoda.
13. What is nematocyst ? Comment on its function.

14. Pinctada is considered an economically important mollusk. Why ?
15. What do you mean by polyembryoni ? Mention its significance.
16. Mention the significance of axolotl larva.
17. What is keel ? Mention its function.
18. What is the role of tube feet ?
19. What is meant by open type of circulatory system ?
20. Mention four parasitic adaptations in Fasciola.
21. Distinguish between definitive host and intermediate host.
22. Explain the adaptive features of Draco.

(8 × 2 = 16 Marks)

SECTION – C

Short essay type : Answer any SIX questions.

23. Give a brief account of coral reefs.
24. Give an account of any two insect pests of paddy in S. India.
25. List the common poisonous snakes of Kerala, mentioning their distinguishing features.
26. Briefly describe the adaptations of aquatic mammals.
27. Describe alternation of generation in obelia.
28. Briefly describe the life cycle of Taenia solium.
29. Discuss the affinities of peripatus with Annelida and Arthropoda.
30. Describe the structure and lifecycle of Entamoeba histolytica.
31. Describe the Ascidian tadpole.

(6 × 4 = 24 Marks)

SECTION – D

Long essay type : Answer any TWO questions.

32. Give an account of parasitic nematodes and mention their special adaptations.
33. Write an essay on the life history and pathogenicity of plasmodium.
34. Describe the morphology of cockroach. Elaborate the anatomy of nervous system of cockroach with suitable diagrams.
35. Write an essay on the flight adaptations of birds.

(2 × 15 = 30 Marks)

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