



**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: (for Botany and Biotechnology)**

**AUBB351: Protista and Animal Diversity**

Time: 3 Hours

Max. Marks: 80

**SECTION – A**

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

1. Polymorphism
2. Bioluminescence
3. Hirudin
4. Radula
5. Madreporite
6. Spongocoel
7. Marsupium
8. Wheel organ
9. Kinetosome
10. Pectoralis major

**(10 × 1 = 10 Marks)**

**SECTION – B**

*Answer any EIGHT questions, not exceeding a paragraph.*

11. Name any two non poisonous snakes. Write any two identifying features of non poisonous snakes ?
12. Explain the parasitic adaptation of any one Platyhelminthes.
13. What is clitellum ? what is its significance ?

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14. Write down the characters of phylum dinoflagellata.
15. Differentiate choanocytes and cnidoblasts.
16. Write a brief note on symbiotic relationship in coral reefs.
17. Enumerate the salient features of phylum porifera.
18. Differentiate schizocoel and enterocoel.
19. Write down the merits of five kingdom classification.
20. Write down the distinguishing features of chordata and non chordata.
21. Give the salient feature of reptilians.
22. Explain reterogressive metamorphosis in ascidia.

**(8 × 2 = 16 Marks)**

### **SECTION – C**

*Short essay type : Answer any SIX questions.*

23. Give an account of axolotl larva.
24. What are the parasitic adaptations of Ascaris ?
25. Write down the distinguishing features of phylum Echinodermata.
26. With the help of a diagram, explain the nervous system of cockroach.
27. Explain different types of feathers in birds.
28. Explain alternation of generation in Obelia.
29. Give a brief account on canal system in sponges.
30. Mention the affinities of Peripatus.
31. Give a note on mammals with special adaptations.

**(6 × 4 = 24 Marks)**

### **SECTION – D**

*Long essay type : Answer any TWO questions.*

32. Explain in detail the life cycle and pathogenecity of Plasmodium.
33. Write an essay on water vascular system in Echinoderms.
34. Classify Phylum Mollusca up to the class with examples.
35. What are the adaptations of Aquatic mammals ?

**(2 × 15 = 30 Marks)**

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