(Pages : 2) 1047

Name •



MAR IVANIOS COLLEGE (AUTONOMOUS) THIRUVANANTHAPURAM

| 1106. 110 | 1 (41110 |
|-------------------------------|---------------------------|
| First Semester B.Sc. Degree E | xamination, November 2014 |
| First Degree Program | mme under CBCSS |
| Complementary Course: | Zoology - I (for Botany) |
| AUZO131: Ani | mal Diversity |
| Time: 3 Hours | Max. Marks: 80 |

Instruction: Draw diagrams wherever necessary.

SECTION - A

Answer **ALL** questions in one or two sentences.

- 1. What are Archeocytes? Explain its role in sponges.
- 2. What are flame cells and its functions?
- 3. Give the importance of Collar cells in Poriferens.
- 4. What is Blooming in *Sea sparkle*?

Reg No .

- 5. Explain osmoregulation with suitable example.
- 6. What are Cnidocytes and its functions?
- 7. Write significance of diatomaceous earth.
- 8. Name a digenetic parasite and a disease caused by it.
- 9. Describe sexual dimorphism with suitable example.
- 10. Which disease is caused by *Tsetse fly*?

 $(10 \times 1 = 10 \text{ Marks})$

SECTION - B

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

- 11. Explain Parasitic adaptations of Sacculina.
- 12. Describe metagenesis in Aurelia.
- 13. Comment on Sponge Gemmule formation and its significance.

1047

- 14. Write characteristics features of *Spongilla*.
- 15. Define Systematics and its importance.
- 16. Obligatory mutualism is exhibited by Termite. Explain.
- 17. Describe the Pathogenecity of Wuchereria bancrofti.
- 18. Explain characteristic features of *Physalia*.
- 19. Describe the evolutionary significance of *Limulus*.
- 20. A short account on prophylactic measures of dengue fever.
- 21. Explain the economic importance of Molluscans.
- 22. Discuss the Polymorphism in Coelenterates.

 $(8 \times 2 = 16 \text{ Marks})$

SECTION - C

Short essay type: Answer any SIX questions.

- 23. Discuss the parasitic adaptations of Tape worm.
- 24. Write a note on evolutionary significance of *Paripatus*.
- 25. Describe regeneration process in *Bipalium*.
- 26. Explain life cycle of Fasciola hepatica.
- 27. Give an account on vector borne diseases, any four.
- 28. Explain Whittaker's five kingdom classification.
- 29. Describe the defensive adaptations of Cephalopods.
- 30. A brief account on the larval forms of Crustaceans.
- 31. Explain different types of coelom with suitable example.

 $(6 \times 4 = 24 \text{ Marks})$

SECTION - D

Long essay type: Answer any TWO questions.

- 32. Give an account on water vascular system in sponges.
- 33. Explain the process of vermiculture and its importance.
- 34. Describe the life cycle and pathogenecity of *Entamoeba histolytica*.
- 35. Describe the various appendages of prawn.

 $(2 \times 15 = 30 \text{ Marks})$