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MAR IVANIOS COLLEGE (AUTONOMOUS) THIRUVANANTHAPURAM

Reg. No.:	Name:
First Semester B.Sc. Degree	e Examination, November 2016
First Degree Prog	ramme under CBCSS
Complementary Cours	e: Zoology – I (for Botany)
AUZO131.2a:	Animal Diversity I
(Common for Regular – 2016 Ad	mn. and Improvement – 2015 Admn.)
Time: 3 Hours	Max. Marks: 80
Instruction: Draw diag	grams wherever necessary.
SECT	TION – A

Answer ALL questions in one or two sentences.

- 1. What are green glands?
- 2. Give one example for each of the classes Crustacea and Arachnida.
- 3. What are choanocytes?
- 4. What is amoebiasis?
- 5. Why is *Trichonympha* important to termites?
- 6. What is haemocoel?
- 7. What is metamerism?
- 8. Name the cephalic appendages of *Penaeus*.
- 9. Mention the phylum and class to which the following animals belong
 - a) Nereis
- b) Bipalium
- 10. What is axopodia?

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

SECTION - B

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

- 11. Distinguish between Protostomia and Deuterostomia.
- 12. Write a note on Actinophrys.
- 13. Sketch and label the scolex of tapeworm.

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- 14. Make a note on *Trichinella*.
- 15. Explain Parasitic castration with one example.
- 16. Comment on extraintestinal migration.
- 17. Write notes on parasitic adaptations of *Hirudinaria*.
- 18. Mention the salient features of phylum Porifera.
- 19. Give a brief description on Aurelia.
- 20. What is bioluminescence? Give an example.
- 21. Sketch and label the mouth parts of cockroach.
- 22. What are the salient features of *Neopilina*?
- 23. Comment on cephalisation.
- 24. What is evisceration?
- 25. Mention any two functions of tube feet.

 $(10 \times 2 = 20 \text{ Marks})$

SECTION - C

Short essay type: Answer any SIX questions.

- 26. With the help of a labeled diagram explain the structure of compound eyes.
- 27. What are the salient features of Cephalopoda? Mention one example.
- 28. Briefly explain the affinities of Peripatus.
- 29. Write an essay on Vermiculture.
- 30. Briefly explain the mode of transmission and disease caused by *Taenia solium*.
- 31. What is a biramous appendage? Describe the thoracic appendages of prawn.
- 32. Explain the different levels of organization seen in animals.
- 33. Give a brief account on Fasciola.
- 34. Briefly describe metagenesis in *Obelia*.

 $(6 \times 5 = 30 \text{ Marks})$

SECTION - D

Long essay type: Answer any TWO questions.

- 35. Explain the life history and pathogenicity of *Plasmodium*.
- 36. Write an essay on agricultural pests and their control measures.
- 37. Explain the salient features of phylum Echinodermata. Classify the phylum upto classes, giving one example from each class. Mention larval forms of each class.
- 38. With labeled diagrams, explain the male and female reproductive systems of *Penaeus*.

 $(2 \times 10 = 20 \text{ Marks})$