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MAR IVANIOS COLLEGE (AUTONOMOUS) THIRUVANANTHAPURAM

Reg. No.:	Name:
Third Semester B.Sc. Degree Exam	mination, November 2015
First Degree Programme	e under CBCSS
Complementary Course: Zoolo	ogy – III (for Botany)
AUZO331.2a: Function	onal Zoology
Time: 3 Hours	Max. Marks: 80
Instruction: Draw diagrams	wherever necessary.
SECTION -	- A

Answer ALL questions in one or two sentences.

- 1. What is Pernicious Anaemia?
- 2. What is Apnoea?
- 3. What is PCV?
- 4. What is ECG?
- 5. What is SA Node?
- 6. What is Proteinuria?
- 7. What is rigor mortis?
- 8. What is arteriosclerosis?
- 9. Comment on Scurvy.
- 10. What is Myocardial infarction?

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

SECTION - B

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

- 11. What is the difference between Marasmus and Kwashiorkor?
- 12. Differentiate between fat soluble and water soluble vitamins.
- 13. What are anticoagulants? Give few examples.
- 14. Comment on Hypercapnia and Hypocapnea.

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- 15. Comment on the structure of Haemoglobin.
- 16. Explain different types of Excretion.
- 17. What are the major causes of anaemia?
- 18. Comment on Cardiac muscles?
- 19. Explain all or none law of skeletal muscle contraction.
- 20. Explain Fatigue.
- 21. Write notes on Active and Passive immunity.
- 22. Differentiate between diabetes mellitus and diabetes insipidus.

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

SECTION - C

Short essay type: Answer any SIX questions.

- 23. Describe the chemical transmission across the synapses.
- 24. Discuss the cause and symptoms of Carbon monoxide poisoning.
- 25. Give brief account of functions of Blood.
- 26. Comment on haemophilia and thrombosis.
- 27. Write an account on AIDS.
- 28. Explain the mechanism of muscle contraction.
- 29. What are the physiological effects of smoking on human body?
- 30. Briefly explain the cause and symptoms of Goitre, Cretinism, Gigantism and Acromegaly.
- 31. Briefly Explain Simple Muscle Twitch.

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

SECTION - D

Long essay type: Answer any TWO questions.

- 32. Describe the structure of neuron and mechanism of impulse transmission through neuron.
- 33. Write an essay on types of immunity & cells and organs of immune system.
- 34. Describe the structure of human nephron and urine formation.
- 35. Briefly explain the O_2 and CO_2 transport.

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