



**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 – IV: (for Botany and Biotechnology)**

**AUBB352: Animal Physiology and Anatomy**

**Time: 3 Hours**

**Max. Marks: 80**

**SECTION – A**

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

1. Myoglobin
2. Bilirubin
3. Alveoli
4. Acetylcholine
5. Bundle of His
6. Endometrium
7. Trypsin
8. Schwann cells.
9. Pacemaker
10. Troponin

**(10 × 1 = 10 Marks)**

**SECTION – B**

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

11. Differentiate striated and non striated muscles.
12. Draw a neat labeled diagram of nephron.
13. What are neurotransmitters ? Give two examples.
14. Differentiate mechanical and chemical digestion.

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15. Write a note on loop of Henle.
16. Draw a neat labeled structure of teeth.
17. What are the mechanisms of oxygen transport in humans ?
18. Explain neuro – muscular junction.
19. Write a brief note about pulmonary respiration.
20. Explain the role of pancreas in exocrine and endocrine systems.
21. Distinguish between blood and lymph.
22. What is a muscle twitch ?

**(8 × 2 = 16 Marks)**

### **SECTION – C**

*Short essay type : Answer any **SIX** questions.*

23. Write a note on blood and its composition.
24. Explain the feedback mechanism of hormonal control.
25. Write a note on CNS in humans.
26. Enumerate the working of heart.
27. With a neat diagram explain human digestive system.
28. Write down the role of ATP in glucose oxidation.
29. What is the significance of counter current system ?
30. Give an account of hormonal control of Menstrual cycle.
31. Draw the structure of kidney. Write down the major functions of kidney.

**(6 × 4 = 24 Marks)**

### **SECTION – D**

*Long essay type : Answer any **TWO** questions.*

32. What is hypothalamo hypophysial system ? Write a brief note on hormones secreted from hypothalamus and pituitary.
33. What are synapses ? Explain different types of nerve impulse transmission.
34. Write an essay on gametogenesis. Draw a neat labeled diagram of human sperm.
35. Explain the structural and biochemical events of muscle contraction.

**(2 × 15 = 30 Marks)**

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