



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: Biotechnology (for Botany and Biotechnology)

AUBB352: Animal Physiology and Anatomy

(for 2014 Admissions – Improvement Only)

Time: 3 Hours

Max. Marks: 80

SECTION – A

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

1. Dental formula
2. Myelin sheath
3. Glucocorticoids
4. Spermatogenesis
5. Haemoglobin
6. Pacemaker
7. Trypsin
8. Flame cells
9. Bowman's capsule
10. Bipolar neuron

(10 × 1 = 10 Marks)

SECTION – B

Answer any EIGHT questions, not exceeding a paragraph.

11. Name the major groups of digestive enzymes.
12. Write a note on Loop of Henley.
13. Draw a neat labelled structure of human sperm.
14. What are the major constituents of human blood ?

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- 15. What is meant by feedback mechanism ?
- 16. Name the hormones produced from Adrenal gland.
- 17. Differentiate Aerobic and Anaerobic respiration with example.
- 18. What is the difference between endocrine and exocrine glands ?
- 19. What are the types of reproduction ?
- 20. Write in brief about Pulmonary respiration.
- 21. What is meant by a neuro – muscular junction ?
- 22. Differentiate Mechanical and Chemical digestion.

(8 × 2 = 16 Marks)

SECTION – C

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

- 23. Describe the basic mechanism of digestion in humans.
- 24. Explain the function of kidney with the help of a diagram.
- 25. Write a note on cellular respiration.
- 26. Compare Blood and Lymph.
- 27. Draw a neatly labelled structure of neuron.
- 28. Describe in brief about the major endocrine glands and the hormones.
- 29. Describe the structure of muscle fibre with the help of a diagram.
- 30. Explain the steps in Glycolysis.
- 31. Write a short note on Muscle contraction.

(6 × 4 = 24 Marks)

SECTION – D

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

- 32. With the help of a diagram, explain the physiology of urine formation.
- 33. Describe the structure and working of human heart.
- 34. What are neurotransmitters ? Write a note on transmission of nerve impulse.
- 35. Write down the major events in gametogenesis. Write a note on hormonal balance of menstrual cycle.

(2 × 15 = 30 Marks)

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