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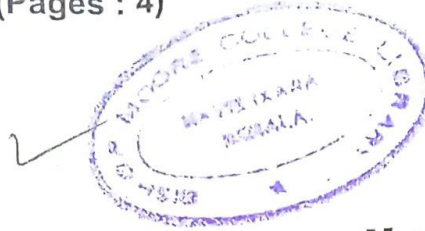
Biotech-247

N - 2782

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Reg. No. :

Name :



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Third Semester B.Sc. Degree Examination, March 2022.

Career Related First Degree Programme under CBCSS

Group 2 (a) Botany & Biotechnology

Vocational Course V

BB 1372 – ANIMAL PHYSIOLOGY AND ANATOMY

(2019- 2020 Admission)

Time : 3 Hours

Max. Marks : 80

I. Answer all the questions. Each question carries 1 mark.

1. What is the energy currency of a cell?
2. What is the transportation form of triglycerides?
3. Define Ornithine cycle.
4. What is the role of cyclic AMP in hormone action?
5. Name the starch digesting enzyme present in saliva
6. Which is the hormone associated With ejection of milk?
7. Write the functional unit of a striated muscle.
8. Which are the cells associated with secretion of heparin.

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9. Name the antidiuretic hormone

10. What are the end products of alcoholic fermentation.

(10 × 1 = 10 Marks)

II. Answer any **eight** questions from the following. **Each** question carries **2** mark.

11. Describe the all-or-none law

12. What is vasa recta?

13. What are osmoregulatory organs? Give an example.

14. What is a sarcomere?

15. What is Nodes of Ranvier?

16. What is muscle fatigue?

17. What is glycolysis?

18. Brief a note on hormones secreted by the posterior pituitary.

19. Mention the characteristic features of cardiac muscles.

20. Draw the labelled structure of glomerulus

21. What are anti-coagulants? Give two examples.

22. What is ventilation?

23. Mention the significance of refractory period in muscle contraction.

24. What is a muscle twitch? Draw a typical graph of muscle twitch.
25. Describe Cori cycle.
26. How oxygen is transported by blood?

(8 × 2 = 16 Marks)

III. Answer any **six** questions from the following. **Each** question carries 4 marks.

27. What is fermentation?
28. Describe the ultrastructure of a striated muscle.
29. What is glomerular filtration rate? Mention the factors affecting GFR
30. Describe various stages in oogenesis
31. Explain the molecular composition of a striated muscle.
32. Describe the Na-K pump.
33. What is salutatory conduction
34. What is menstruation? Describe the ovarian and uterine phases during the cycle.
35. Differentiate between red and white muscles?
36. Draw the labelled diagram of a typical neuron
37. What is double circulation?
38. What is electron transport chain?

(6 × 4 = 24 Marks)

IV. Answer any **two** from the following . **Each** question carries 15 marks.

39. Describe the cellular events during spermatogenesis.
40. Explain the structure of human heart with the help of a diagram.

41. Mention the pathway of anaerobic oxidation of glucose.
42. What is a synapse? Explain the synaptic transmission of impulse.
43. Explain the mechanism of urien formation.
44. Describe the structure of human digestive system.

(2 × 15 = 30 Marks)