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Reg. No. :

Name :



Third Semester B.Sc. Degree Examination, January 2023

Career Related First Degree Programme under CBCSS

Group 2(a) - Botany and Biotechnology

Vocational Course V

BB 1372 : ANIMAL PHYSIOLOGY AND ANATOMY

(2019 Admission onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A

1. Answer **all** the questions.

1. Name the bacteria that inhabit the colon of man.
2. In which form of the major part of CO₂ is transported.
3. Name the left auriculo-ventricular valve.
4. Define Ornithine cycle.
5. Which is the blood vessel that carries blood towards the glomerulus.
6. Name the blood cells that secrete histamine.
7. What is the product of fermentation in muscle cells.
8. Which is the lymph vessel present inside the intestinal villus.

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9. Name the electro-chemical excitation waves on the membrane of stimulated nerves.
10. Write the function of parathyroid hormone.

(10 × 1 = 10 Marks)

SECTION – B

M. Answer any **eight** questions from the following..

11. Name the hormones secreted by the anterior pituitary.
12. What are prostaglandins?
13. What is Cori cycle?
14. What is Ureotellic excretion? Give an example.
15. What is glomerulus?
16. Describe the structure of human sperm.
17. What is cardiac cycle?
18. What is a muscle fatigue?
19. What are red muscle fibers?
20. What is blood transfusion? How blood antigen associated with it?
21. What is a synapse?
22. What is threshold stimulus in neuronal transmission?
23. What is vasa recta?
24. Mention the different stages in spermatogenesis.
25. What are the driving forces behind glomerular filtration?
26. Describe the chemical composition of hemoglobin.

(8 × 2 = 16 Marks)

III. Answer any **six** questions from the following..

27. What is Na-K pump?
28. Describe the structure of a medullated nerve fibre.
29. What is a muscle twitch? Describe it with the help of a diagram.
30. What are the chemical components of blood?
31. Mention the difference between open and closed circulatory system.
32. What is all-or-none law with respect to muscle contraction?
33. What is dialysis? Mention its clinical significance.
34. What are respiratory pigments? Mention two examples.
35. Describe the ultrastructure of a striated muscle fibre.
36. Describe the structure of human kidney.
37. What is oxygen-hemoglobin dissociation curve?
38. What is tubular reabsorption during urine formation.

(6 × 4 = 24 Marks)

IV. Answer any Two from the following.

39. Explain the mechanism of muscle contraction.
40. With the help of a labelled diagram, describe the structure of a nephron.
41. Write an essay on human digestion.
42. Describe the structure of human heart with the help of a line diagram.

43. Explain the counter current mechanism during urine concentration.
44. Discuss the mechanism of impulse transmission on a medullated neuron.

(2 × 15 = 30 Marks)
