

D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1.

III B.Sc Biochemistry

Semester :V

Title of the paper: Human Physiology

Subject Code : 15CBC5B

SECTION-A 2 MARKS

1. What is the function of blood?
2. Give the composition of blood.
3. What are plasma proteins?
4. What are stem cells?
5. What is Rh factor?
6. How are blood groups classified?
7. What are blood clotting factors?
8. Give the normal hemoglobin level of blood.
9. Write a note on the composition and function of lymph.
10. What is systolic and diastolic pressure?
11. What are the components of digestive system?
12. Give the composition and function of saliva.
13. What is the role of bile salt in digestion and absorption of lipids?
14. Give the composition of gastric juice.
15. What are the enzymes involved in the digestion of carbohydrates?
16. What are the enzymes involved in the digestion of lipids?
17. What are the enzymes involved in the digestion of proteins?

18. What is active transport?
19. Define nerve impulse.
20. What is a synapse?
21. Give examples of male and female sex hormones.
22. Give the composition and function of semen.
23. Write a note on the composition and function of CSF.
24. Define GFR.
25. What is renal threshold?
26. Define Micturition.
27. What is active transport?
28. What is passive transport?
29. What are the process involved in the mechanism of urine formation?
30. What are normal and abnormal constituents present in urine?
31. What are the components of urinary system?
32. Give the components of respiratory system.
33. What is partial pressure of gases?
34. Give the composition of inspired air.
35. What is tidal volume.
36. Define inspiration and expiration.
37. What is Bohr's effect?
38. What is chloride shift?
39. What are muscle proteins?
40. Give a note on Sarcoplasmic reticulum.

41. What is role of Creatine phosphate in muscle contraction?
42. What is the role of calcium in muscle contraction?
43. What is respiratory cycle?
44. What are the forms in which carbondioxide and oxygen is transported?
45. What is the role of hemoglobin in transport of gases?

SECTION-B 5 Marks

1. Give a short account on the composition and function of blood.
2. Explain the morphology and function of RBC.
3. Give an account on the blood clotting factors.
4. Explain the process of phagocytosis.
5. Give the morphology and function of granulocytes.
6. What is ABO system of blood?
7. Write a note on lymphatic system.
8. Give a short note on the structure and function of heart.
9. Write about the structure and function of stomach.
10. Explain the structure and types of teeth.
11. Explain the digestion of lipids.
12. Describe the process of defeacation.
13. What are neurotransmitters? Explain.
14. Note on the structure and function of neuron.
15. Explain the physiology of pregnancy.
16. Explain the physiology of parturition and lactation.
17. Explain the mechanism of nerve transmission.

18. Write a note on the structure and function of kidney.
19. Give the structure and function of nephron.
20. Explain the process of glomerular filtration.
21. Write about the structure and function of lungs.
22. Write a short note on the structure of muscle proteins.

SECTION-C 10 Marks

1. Give a detailed account on the type of cells.
2. Write an account on the composition and function of blood.
3. What is the role of platelets in blood coagulation?
4. Explain the blood clotting mechanism.
5. Explain the process of clot retraction.
6. Give a short note on blood clotting factors.
7. Discuss on the process of cardiac cycle.
8. Explain the structure and function of different components of digestive organs.
9. Give an account on the digestion and absorption of carbohydrates.
10. Give an account on the digestion and absorption of proteins.
11. Explain the mechanism of HCL formation in stomach.
12. Explain the role of various enzymes and hormones in the process of digestion.
13. What are the organs involved in the process of digestion of carbohydrates.
14. Give an illustrated account on the structure and function of brain.
15. Give an account on the structure and function of male reproductive organ.

16. Write about the structure and function of female reproductive organ.
17. Explain the mechanism of urine formation.
18. Outline the components of urinary system.
19. Write an account on the various components of respiratory system.
20. Write about the transport of oxygen between the tissues and lung.
21. Write about the transport of carbon-dioxide.
22. Give an account on the mechanism of respiration.
23. Write a detailed note on the types of muscles.
24. Explain the process of muscle contraction.