

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

Title of the paper: BIOMOLECULES

Subject Code : 15CPBC1B

SECTION-A 6 MARKS

1. Write a note on structure and biological importance of deoxy sugars.
2. Give an account on structure and biological importance of glycosides.
3. Add an account on sulphate derivatives.
4. Give a brief note on lactones.
5. Elaborate how aminoacids are classified
6. How proteins are classified based on shape and solubility.
7. Comment on protein keratin.
8. How hemoglobin structures are organized.
9. Give an account on the structure and functions of phospholipids.
10. Give a note on thromboxanes
- 11.** Write a brief note on leukotrienes.
12. Describe the characteristics of double helical structure of B DNA
13. Add a note on properties of DNA
14. Give a short note on structure of A and Z DNA
15. Explain in detail about the models of plasma membrane.
16. Describe the process of importins and exportins.
17. Briefly discuss about endocytosis and exocytosis.
18. Discuss about ionophores.

SECTION-B 15 MARKS

1. Design the structure, properties and function of glycosaminoglycans.
2. Describe lipopolysaccharides and its functions.
3. Summarize the classification of protein based on structure.
4. Write a note a collagen protein.

5. Outline the solid state synthesis of protein.
6. Explain the structure and functions of prostaglandins.
7. Explain the structure and function of important steroids.
8. Elaborate the sequencing of DNA by Maximum Gilbert method.
9. Describe the sequencing of DNA by Sanger's Dideoxynucleotide method.
10. Describe the oligonucleotides synthesis.
11. Explain how active transport process takes place in a cell.
12. Briefly explain the process of passive transport mechanism in a cell.
13. Write about docking proteins and their functions.