

D. K. M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1
SEMESTER EXAMINATIONS
NOVEMBER - 2017

15CABC1A

ALLIED : BIOCHEMISTRY - I

Time : 3 Hours

Max. Marks : 75

SECTION – A (10 x 2 = 20)

Answer ALL the questions.

1. Write the haworth structure of glucose.
2. What is epimer and anomer?
3. What is isoelectric point?
4. Write note on ampholyte with examples.
5. What is a peptide bond?
6. Define denaturation.
7. What is saponification?
8. Write short notes on saturated and unsaturated fatty acid.
9. Enlist the difference between DNA and RNA.
10. Write a note on nucleotide with examples.

SECTION – B (5 x 5 = 25)

Answer any FIVE of the following questions.

11. Write the structure and occurrence of glucose and fructose.
12. Differentiate the reducing and non - reducing sugars.
13. Write note on essential and non - essential amino acids.
14. Write in detail about the classification of proteins based on shape and size.
15. Give an account on the determination of primary structure of proteins.
16. Write a note on bile salts and its functions.
17. Write an account on the classification of lipids with suitable examples.
18. Name the different RNA's and discuss the structure of tRNA.

SECTION – C (3 x 10 = 30)

Answer ALL the questions.

19. (a) What are carbohydrates? Write a note on the classification of carbohydrates.
(Or)
(b) Explain the various classifications of amino acids.
20. (a) Discuss the various levels of organization of protein structure.
(Or)
(b) Describe the structure, properties and biological importance of cholesterol.
21. (a) What are phospholipids? Write its structure and functions.
(Or)
(b) Describe the double helical structure of DNA.