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**D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**  
**SEMESTER EXAMINATIONS**  
**APRIL - 2017**  
**ALLIED: BIOCHEMISTRY**

**15CABC4A**

**Time: 3 Hrs**

**Max.Marks : 75**

**SECTION-A (10 x 2 =20)**

**Answer ALL the questions.**

1. What are aldoses and ketoses?
2. What is Mutarotation?
3. How amino acids are classified nutritionally?
4. Define zwitter-ion.
5. Classify proteins on the basis of solubility.
6. Name some of the fibrous and globular proteins.
7. Define waxes.
8. List the major group of Lipoproteins.
9. What are the purine and pyrimidines bases present in the nucleic acids?
10. Differentiate between nucleosides and nucleotides.

**SECTION-B (5 x 5 =25)**

**Answer any FIVE of the following questions.**

11. Write a note about the isomerism and its types existing in the carbohydrate molecule.
12. What are disaccharides? Briefly give an account of their classification
13. Discuss briefly on the classification of amino acids based upon their functional groups.
14. What are biologically important peptides? Give example.
15. Bring out the different properties of fat with suitable explanation.
16. Highlight the important differences between DNA and RNA.
17. Enumerate on derived lipids.
18. Describe briefly about the structure of t RNA.

**SECTION-C (3 x 10 =30)**

**Answer ALL the questions.**

19. (a) Explain in detail on the chemical properties of monosaccharides.

(Or)

- (b) Describe the occurrence, properties, and functions of starch.

20. (a) Write an account on the physical properties of aminoacids.

(Or)

- (b) Discuss the structural organization of proteins.

21. (a) Enumerate in detail the role of bile salt and bile acid in various metabolic process.

(Or)

- (b) Illustrate the double helical model of DNA.

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