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

APRIL-2019

15CABC4A

ALLIED : BIOCHEMISTRY

Time : 3 Hrs.

Max.Marks : 75

SECTION-A(10 x 2 =20)

Answer ALL the questions.

1. Why sucrose is called non – reducing sugar?
2. Write the Molecular and Haworth formula for D – Glucose.
3. List out the acidic and basic aminoacids.
4. Write a note on Zwitter ion.
5. Write the reaction of aminoacid with FDNB.
6. List out the bonds responsible for protein synthesis.
7. Write a note on saturated fatty acids.
8. Define iodine number of fatty acid.
9. Distinguish nucleoside and nucleotide.
10. Write a note on functions of mRNA.

SECTION-B(5 x 5 =25)

Answer any FIVE of the following questions.

11. Explain in detail about Mutarotation.
12. Write in detail about osazone formation of glucose.
13. Explain salting in/out effect of Protein.
14. Explain the phenomenon of denaturation of Protein.
15. Write in detail the classification of aminoacids.
16. What are bile acids? Explain the process of emulsification.
17. Distinguish the structure of DNA and RNA.
18. Draw and explain the structure and functions of t – RNA.

SECTION-C(3 x 10 =30)

Answer ALL the questions.

19. (a) Explain the classification of carbohydrate.
(Or)
(b) Explain in detail about the double helical structure of DNA.
20. (a) What are polysaccharides? Explain the structure and functions of Starch.
(Or)
(b) Write a detail note on structure of protein. Mention the forces responsible for the structural stabilization of proteins.
21. (a) Explain the Biological Functions of Nucleic acid.
(Or)
(b) Explain the classification of Lipid.

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