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B.M.S COLLEGE FOR WOMEN, AUTONOMOUS

BENGALURU – 560004 SEMESTER END EXAMINATION – MARCH/APRIL- 2023

B.Sc. Biotechnology - III Semester

BIOMOLECULES

(NEP Scheme 2021-22 onwards)

Course Code: BT3DSC03 QP Code: 3019
Duration: 2 ½ Hours Max. Marks: 60

PART-A

I. Answer any FOUR of the following.

(4X2=8)

- 1. What are essential and non-essential amino acids? Give an example.
- 2. Discuss on composition of Sucrose.
- 3. What is Saponification number?
- 4. Comment on functions of Epinephrine hormone.
- 5. Differentiate between Nucleoside and Nucleotide.
- 6. Discuss on the principle of Electrophoresis.

PART-B

II. Write short notes on any FOUR of the following.

(4X5=20)

- 7. Explain the structure and properties of Cellulose.
- 8. Discuss on the concept of Zwitter ion and Isoelectric point.
- 9. Give a brief account on types of Enzyme inhibition with an example.
- 10. Explain dietary source, functions and deficiency of Vitamin A.
- 11. Write a note on principle and applications of thin layer chromatography.
- 12. Give a brief account on classification of Hormones with an example.

PART-C

III. Answer any FOUR of the following.

(8X4=32)

- 13. Describe in detail the structural level of organization of Proteins with an example.
- 14. Explain the factors influencing Enzyme activity.
- 15. Explain the concept of isomerism and ring structure in Glucose.
- 16. Give a detailed account on functions and deficiency manifestations of Vitamin B1 & vitamin C.
- 17. Explain the mechanism of hormone action and their functions.
- 18. Explain the principle and applications of AAS.
