

**B.M.S COLLEGE FOR WOMEN****BENGALURU – 560004****III SEMESTER END EXAMINATION JAN/FEB - 2024****B.Sc. – BIOTECHNOLOGY - BIOMOLECULES****(NEP Scheme 2021-22 onwards F+R)****Course Code: BT3DSC03****Duration: 2 ½ Hours****QP Code: 3019****Max. Marks: 60****PART-A****I. Answer any four of the following.****(4X2=8)**

1. Define isoelectric point.
2. List out sources of Vitamin D.
3. What is an acid value?
4. Project Haworth structure of glucose.
5. What is a nucleoside?
6. Recall and write about the mobile phase of TLC.

**PART-B****II. Answer any four of the following.****(4X5=20)**

7. Elaborate on activation energy.
8. Outline the biological role of Vitamin C.
9. Summarize on cholesterol.
10. Elucidate the structure of starch.
11. Enumerate the functions of epinephrine.
12. Explain the instrumentation of HPLC.

**PART-C****III. Answer any four of the following.****(8X4=32)**

13. Explain the tertiary and quaternary structural organization of proteins.
14. Discuss the instrumentation and applications of UV-Vis spectroscopy.
15. Classify lipids and list out their functions.
16. Compile any four chemical properties of monosaccharides.
17. Illustrate the mechanism of action of Estradiol. Add a note on its function.
18. Outline the principle and procedure of SDS-PAGE