SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN (AUTONOMOUS) (Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC) Chromepet, Chennai — 600 044. B.Sc. END SEMESTER EXAMINATIONS NOVEMBER-2022 SEMESTER - II 20UFMAT2002 - Allied Chemistry-II

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section A

Answer any **SIX** questions $(6 \times 5 = 30 \text{ Marks})$

- 1. Define mutarotation and show the cyclic ring structures of α and β -D glucose.
- 2. How will you convert glucose to fructose.
- 3. Prepare a dipeptide Gly-Ala using Bergman method.
- 4. Differentiate DNA from RNA.
- 5. Explain analgesics and antipyretics with examples.
- 6. Discuss the types, causes and treatment for diabetes.
- 7. Describe the crystallization process.
- 8. With neat diagram explain the principles and applications of thin layer chromatograph.

Section B

Answer any **THREE** questions $(3 \times 10 = 30 \text{ Marks})$

- 9. Classify carbohydrates and show the open chain and ring structure of fructose.
- 10. Distinguish proteins from nucleic acids based on their composition and biological functions.
- 11. Compare and contrast local and general anesthetics.
- 12. With neat diagram explain steam distillation method.
- 13. Deduce the applications of chromatography methods.
