Sl.No:M21198 Course Code: BP202T

VINAYAKA MISSION'S RESEARCH FOUNDATION (Deemed to be University), SALEM

B.PHARM. DEGREE EXAMINATION – October 2021 Second Semester

PHARMACEUTICAL ORGANIC CHEMISTRY I

Time: Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions:

 $(2 \times 10 = 20)$

- 1. Define Elimination reaction. Describe the mechanism, kinetics and stereochemistry of E1 and E2 reactions.
- 2. Explain the Halogenation of alkanes with examples.
- 3. Explain the mechanism of free radical addition reaction of alkenes with examples.

II. Write short answers on any **SEVEN** questions:

 $(7 \times 5 = 35)$

- 4. Explain the basicity of amines.
- 5. Explain Saytzeffs rule with examples.
- 6. Describe in detail about electrophilles and nucleophilles with examples.
- 7. Explain about Markownikoff's rule of alkene.
- 8. IUPAC nomenclature of alcohol.
- 9. Detail note on Ozonolysis.
- 10. Write a note on benzoin condensation with its mechanism.
- 11. How to differentiate primary, secondary and tertiary alcohols?
- 12. E1 versus E2.

III. Write short notes on:

 $(10 \times 2 = 20)$

- 13. Define hydrogen bonding with one example.
- 14. Medicinal uses and structure of Lactic acid and amphetamine.
- 15. 1, 4 addition of conjugated dienes.
- 16. Why aniline is less basic than ammonia?
- 17. Write any two qualitative tests of amides.
- 18. Structure and use of vanillin and propylene glycol.
- 19. IUPAC name of HO CH2 CH2 CH2 COOH.
- 20. Define and classify alcohols.
- 21. Write the structure of the following
 - i) 1 methyl pentene
 - ii) 2 ethyl butane
- 22. Define Cannizzaro reaction.
