Sl.No: M2122 Course Code: BP301T

VINAYAKA MISSION'S RESEARCH FOUNDATION (DEEMED TO BE UNIVERSITY), SALEM

B.PHARM. DEGREE EXAMINATION – July 2021 Third Semester

PHARMACEUTICAL ORGANIC CHEMISTRY II

Time: Three hours

Maximum: 75 marks

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

 $(2 \times 10 = 20)$

- 1. Explain the aromaticity and resonance structures of benzene including Huckel's rule.
- 2. Define and classify the activating and deactivating group. Discuss the theory of effect of the substituent's on reactivity.
- 3. What are polynuclear aromatic hydrocarbons? Write the synthesis and properties of Diphenyl ethane and Naphthalene?

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

 $(7 \times 5 = 35)$

- 4. Discuss the orientation in electrophilic aromatic substitution reaction.
- 5. Give the nomenclature and preparation of Cycloalkanes.
- 6. Write the general methods for the preparation of aromatic carboxylic acids.
- 7. Explain the influence of substituent's on basic property of aromatic amines.
- 8. Explain in detail about Coulson and Moffitts modification.
- 9. Write the preparation, important reaction and uses of Phenol.
- 10. Discuss the reaction and mechanism of Nitration and sulphonation.
- 11. Write the preparation of triphenyl methane and its derivatives.
- 12. Discuss the determination of acid and iodine value.

III. Write short notes on:

 $(10 \times 2 = 20)$

- 13. Write the structure and uses of Saccharin.
- 14. Qualitative tests for hydroxyl benzene.
- 15. Acetyl value.
- 16. Write the structure and uses of naphthol.
- 17. Write the structure and uses of cresols.
- 18. Give the example of fats and oil.
- 19. Preparation of Aromatic Amines.
- 20. Hydrogenation is fatty acid.
- 21. Diazotization.
- 22. Write the structure and uses of chloramines.
