

Sl.No. M19190

Course Code: 3200104

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

Pharm.D DEGREE EXAMINATION - August 2018
First Year

PHARMACEUTICAL ORGANIC CHEMISTRY

Time: Three hours

Maximum: 70 marks

- I. Write essays on any **TWO** questions: (2 x 15 = 30)
1. a) Basicity of amines. (7)
 - b) Claisen condensation. (8)
 2. a) Electrophilic aromatic substitution reactions of benzene. (10)
 - b) Preparation, test for purity, assay and uses of aspirin. (5)
 3. a) Electrophilic addition reactions of alkenes. (10)
 - b) Saytzeff's rule (5)
- II. Write short answers on any **SIX** questions: (6 x 5 = 30)
4. Perkin condensation
 5. Mechanism of peroxide initiated addition of hydrogen bromide.
 6. Halogenation of propane and relative reactivity.
 7. a) Isomerism b) Acid-base theories.
 8. Acidity of carboxylic acids.
 9. Stability and rearrangements of carbocations.
 10. Reimer tiemann's reaction.
 11. Hoffman rearrangement.
- III. Write short notes on any **FIVE** question: (5 x 2 = 10)
12. Intermolecular forces and influence on boiling point.
 13. Sandmeyer reaction.
 14. Preparation assay and medicinal uses of dimercaprol.
 15. Benzyne mechanism.
 16. Why conjugated dienes are more stable than other dienes?
 17. Activating and Deactivating groups.
