

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

**B.PHARM. DEGREE EXAMINATION – July 2019**  
**Second Year**

**PHARMACEUTICAL ORGANIC CHEMISTRY - II**

Time : Three hours

Maximum: 70 marks

I. Write essays on any **TWO** questions: (2 x 15 = 30)

1. a) Describe the resolution of racemic modification.  
b) Stereochemistry of cyclic compounds.
2. a) What are the classification of heterocyclic compounds, method of preparation of Imidazole.  
b) Chemistry and pharmacological activity of reserpine.
3. Give the synthetic importance of  
a) Oxidation with perchloric acid.  
b) Metal hydride reduction.

II. Write short essays on any **SIX** questions: (6 x 5 = 30)

4. Stereochemistry of nitrogen compounds.
5. Describe about the elements of symmetry.
6. Meerwin Pondraff reduction.
7. Stereochemistry of sennosides.
8. Write the chemistry and pharmaceutical uses of Vitamin B1.
9. Give the structure elucidation of morphine and related compounds.
10. Write the structure, chemistry and medicinal use of citral.
11. Preparation and application of isoquinoline.

III. Write short notes on any **FIVE** questions: (5 x 2 = 10)

12. Sequence rule.
13. Define geometrical isomerism.
14. Write the preparation of Acridine.
15. Structure and pharmacological uses of papavarine.
16. Define glycosides. Write the structure of digoxin.
17. Dehydrogenation.