

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

**B.PHARM. DEGREE EXAMINATION – August 2018**  
**Second Year**

**PHARMACEUTICAL ORGANIC CHEMISTRY - II**

Time : Three hours

Maximum: 70 marks

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

1. Define and classify alkaloids with examples. Discuss the chemistry and pharmacological activity of Morphine.
2. Write the definition, reaction and mechanism of
  - i) Schmidt rearrangement
  - ii) Meerwin Pondroff reduction
3.
  - a) Write in detail about Modern theory of double bonds.
  - b) Describe the Stereospecific and stereo selective synthesis.

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

4. Write the synthesis of Phenothiazine.
5. Describe the Beckmann rearrangement with suitable reaction.
6. Classify Vitamins with example.
7. Explain the synthetic importance of Mercuric acetate and Selenium Oxide.
8. Explain in detail Nucleophilic aromatic substitution.
9. Describe the chemistry and uses of Vitamin A.
10. Give the chemical reactions of isoquinoline.
11. Describe the chemistry and uses of Menthol.

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

12. Write the preparation of Thymol.
13. Write the Chemistry of B<sub>2</sub>.
14. Sketch the structures of Diosgenin and Hecogenin.
15. Draw the structure and chemical name of thiamine.
16. Give the uses of K.
17. Optical isomerism.

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