

Roll No

BP-401T (CBGS)**B.Pharm., IV Semester (PCI Scheme)**

Examination, May 2018

Choice Based Grading System (CBGS)**Pharmaceutical Organic Chemistry - III***Time : Three Hours**Maximum Marks : 75*

- Note:* i) Attempt any five questions.
 ii) All questions carry equal marks.
 iii) Draw neat and well labelled diagrams wherever necessary.

1. Discuss with examples: enantiomers, diastereomers, racemic and meso compounds. Write about RS system of nomenclature of optical isomer.
2. Write the conformational isomers for cyclohexane. Describe different methods of determination of geometrical isomer configurations.
3. How heterocyclic compounds are nomenclature and classified? Explain in brief the differences in aromaticity and reactivity of pyrrole, furan and thiophene derivatives.

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4. Discuss the synthetic procedures of quinoline and isoquinoline derivatives and their medicinal uses.
5. Write briefly about the following reactions of synthetic importance: clemmensen reduction, Beckmanns rearrangement, claisen Schmidt condensation.
6. Write short notes on:
 - a) Asymmetric synthesis
 - b) Atropisomerism
 - c) Syn Anti systems
7. Write about the synthesis, reactions and medicinal uses of pyrrole derivatives.
8. How indole and azepine are synthesized? Discuss the synthetic importance of metal hydride reduction.
