

35163 : Pharmaceutical Organic Chemistry - III : T-5.3

P. Pages : 1

Time : Three Hours

**AW - 2309**

Max. Marks : 60

- Notes :
1. All question carry equal marks.
 2. Answer **any five** questions.
 3. Discuss the reaction, mechanism wherever necessary.
 4. Use of pen Blue/Black ink/refill only for writing the answer book.

1. Explain reaction mechanism of Beckmann rearrangement and Whitmore 1, 2-shift. **12**
2. Write classification of proteins. Explain methods of peptide synthesis. **12**
3. Discuss chemistry of indole and quinoline nucleus in detail. **12**
4. Explain reaction mechanism with examples of Aldol condensation and MPV reduction. **12**
5. What is mean by retrosynthesis? Explain retrosynthetic route for propranolol and ciprofloxacin. **12**
6. Write classification of carbohydrates with examples. Write a note on mutarotation. **12**
7. Write short note on **any two**. **12**
 - i) Oppenauer oxidation.
 - ii) Multiple parallel synthesis.
 - iii) Losses rearrangement.
