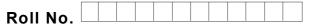
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Total No. of Pages : 01

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M.Pharma(Pharmaceutical Chemistry) (2017 & Onwards) (Sem.-1) **ADVANCED ORGANIC CHEMISTRY-I** Subject Code : MPC-102T M.Code: 74664

Time: 3 Hrs.

Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

- 1. Attempt any FIVE questions out of SIX questions.
- 2. Each question carries FIFTEEN marks.

| 1. | a. Structure stability and stereochemistry of free radicals. | 2.5 |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| | b. Name two protecting agents used for protection of carboxyl group and mechanism. | their 2.5 |
| | c. Knorr Pyrazole synthesis. | |
| | d. Prochlorperazine synthesis and its therapeutic class. | 5 |
| 2. | Name different synthetic reagents and discuss in detail the application of any details. | two in 15 |
| 3. | Outline the two mechanisms for nucleophilic unimolecular and bimolecular react details. Discuss the various factor effecting the kinetics and stereochemistry of SN evidences. | |
| 4. | Elaborate the mechanisms and two applications of : | |
| | Dieckmann reaction | 7.5 |
| | Baeyer-Villiger reaction | 7.5 |
| 5. | Give a detailed account of the two mechanisms for elimination reaction in or Discuss the various factor effecting the kinetics and stereochemistry of E evidences. | |
| 6. | Explain in detail the different synthetic strategies for compounds with three, four a member ring. | nd five 15 |

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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