

Roll No. 

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Total No. of Pages : 01

Total No. of Questions : 06

M.Pharma(Pharmaceutical Chemistry) (2017 &amp; 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 their mechanism. 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 two** in details. 15
3. Outline the two mechanisms for nucleophilic unimolecular and bimolecular reactions in details. Discuss the various factor effecting the kinetics and stereochemistry of SN1 and evidences. 15
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 details. Discuss the various factor effecting the kinetics and stereochemistry of E 2 and evidences. 15
6. Explain in detail the different synthetic strategies for compounds with three, four and five member ring. 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.**