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Total No. of Pages : 02

Total No. of Questions : 06

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.

- Q1) a) Classify reaction mechanism with suitable example of each. (5)
- b) Describe generation and reaction of nitrenes. (5)
- c) Describe Saytzeff rule and its synthetic application. (5)
- Q2) Give mechanism and synthetic application of following :
- a) Ullmann coupling reactions (5)
- b) Mitsunobu reaction (5)
- c) Vilsmeier-Haack reaction (5)
- Q3) Write synthetic application of following reagents with example:
- a) Wittig reagent (5)
- b) Wilkinson reagent (5)
- c) Protection of amino group (5)
- Q4) Explain the synthetic mechanism of the following :
- a) Radziszewski imidazole Synthesis (5)
- b) Combes Quinoline Synthesis (5)
- c) Hydroxychloroquine (5)

- Q5) a) Give various strategies for synthesis of five membered ring. (10)
b) Describe interconversion of amine and amide functionalities. (5)
- Q6) Write short notes on :
a) Synthetic importance of formation of acetal and ketal. (5)
b) Synthesis of chlorpromazine. (5)
c) Various types of intermolecular rearrangement (5)

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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.