Roll No. | | | | | | | | | | | | 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) Vilsmeyer-Haack reaction (5)

Q3) Write synthetic application of following reagents with example:

a) Witting reagent (5)

b) Willkinson 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) Hyrdoxychloroquine (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)

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.