Seat No.: _____ Enrollment No. ____

PARUL UNIVERSITY FACULY OF PHARMACY

M.Pharm. Winter 2017 - 18 Examination

Semester: 1 Date: 10/01/2018

Subject Code: MPC102T Time: 10:00 am to 1:00 pm

Subject Name: Advanced Organic Chemistry-I Total Marks: 75

Instructions:

- 1. Figures to the right indicate maximum marks.
- 2. Make suitable assumptions wherever necessary.

Q.1 Essay Type Questions. (any 2 out of 3) (15 Marks Each)

(30)

- 1. Write reaction, mechanism, reactivity, stereochemistry of SN₁ and SN₂ reaction.
- 2. What is retro synthesis analysis? Explain guideline for dissection of molecules with example.
- 3. Write protection and deprotection of carbonyl, hydroxyl and amino acid group.

Q.2 Short Essay Type Questions. (any 5 out of 6) (5 Marks Each)

(25)

- 1. Write reaction, mechanism, reactivity, evidence of E_1 reaction.
- 2. Explain the role of DCC and DEAD in reaction with example.
- 3. Write short note on Ugi and Ullmann coupling reaction.
- 4. Write short note on Smiles and Brook rearrangement
- 5. Explain Knorr Pyrazole Synthesis and Combes Quinoline Synthesis.
- 6. Outline synthesis of Ketoconazole and Triamterene.

Q.3 Short Answers. (2 Marks Each)

(20)

- 1. Explain synthetic reagent and application of N-Bromosuccinimide.
- 2. Write short note on Michael addition.
- 3. Outline synthesis of Chloroquinoline.
- 4. Explain application of Witting reagent in brief.
- 5. Write insertion of oxygen reaction and mechanism in brief.
- 6. Outline synthesis of Chlorpromazine.
- 7. Draw structure of Purine and Acridine Heterocylces.
- 8. Explain synthetic reagent & application of Aluminium sopropoxide.
- 9. Explain Hofmann rule with example.
- 10. Explain Ozonolysis in brief.