

PARUL UNIVERSITY
FACULTY OF PHARMACY
B.Pharm. Summer 2018-19 Examination

Semester: 4**Date: 01/04/2019****Subject Code: 08101251****Time: 2.00 pm to 5.00 pm****Subject Name: Pharmaceutical Chemistry-IV (Organic Chemistry-II) Total Marks: 75**

Instructions:

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

Q.1 Essay type Questions. (Any 2 out of 3) (10 marks each) (20)

1. Give a brief note preparation and reactions of Carboxylic acids and their derivatives.
2. Write Mechanism of Friedal craft alkylation and friedal craft acylation.
3. Explain principles of green chemistry in detail.

Q.2 Short Essay type Questions. (Any 7 out of 9) (5 marks each) (35)

1. Explain Hofmann rearrangement reaction with mechanism.
2. Explain S_N1 reaction and mechanism along with evidences.
3. Write short note on Microwave chemistry.
4. Give a brief note on the reactions of Alkenes.
5. Write reactions of aldehyde.
6. Discuss Aldol condensation in brief.
7. Explain E2 reaction and mechanism along with supporting evidences.
8. Write principles and applications of Combinatorial chemistry.
9. Write any three reactions of amines and two reactions of alcohols.

Q.3 Answer in short. (2 marks each) (20)

1. Define phase transfer catalysis with example.
2. Write brief note about protic and aprotic solvents.
3. Explain any two chemical reactions involving diazonium salts.
4. Explain Fries reaction with mechanism.
5. Explain Markovnikov and Anti Markovnikov rule.
6. Write any one reaction and preparation of Alkynes.
7. Write properties of ketone.
8. Write brief note on cannizaro reaction.
9. Explain synthesis of any one drug using retro synthesis approach.
10. What is diene? Give one reaction of it.