

PARUL UNIVERSITY
FACULTY OF PHARMACY**B.Pharm., Summer 2017-18 Examination****Semester: 5****Date: 14/05/2018****Subject Code: 08101301****Time: 10:00am to 1:00pm****Subject Name: Pharmaceutical Chemistry-V (Medicinal Chemistry-I)****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. Which are physicochemical properties of drug molecules that influencing biological activity? Explain any two of them in detail.
2. Define and classify cholinergic agents. Explain the SAR of Parasympathomimetics.
3. What are heterocyclic compounds? Explain preparation and reaction of Isoquinoline.

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

1. Write reaction mechanism of Skraup synthesis.
2. Write a note on development of Medicinal Chemistry.
3. Give SAR of Muscarinic Antagonists.
4. Write a note on Antisecretary agents.
5. Write an informative note on Bioisosterism.
6. Give the synthesis of Propranolol and Adrenaline.
7. Discuss types of forces involved in drug receptor interaction.
8. Write a note on Ganglionic blockers.
9. Write reaction mechanism of Fisher Indole synthesis.

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

1. Furan is less aromatic than thiophene.
2. Draw structure of Benzofuran and Benzthiazole.
3. Define Parasympatholytics with example.
4. Define and classify antacids.
5. Give any two names and structure of drug used as Neuromuscular blocking agents.
6. Describe any two reaction of Thiazole.
7. Give name of drugs and uses of proton pump inhibitor.
8. Outline the synthesis of Omeprazole.
9. Explain geometrical isomerism with example.
10. Give any two preparation of Imidazole.