

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

Semester: 5
Subject Code: 08101301
Subject Name: Pharmaceutical Chemistry-V
(Medicinal Chemistry-I)

Date: 27/11/2018
Time: 10:00 am to 1:00 pm
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)

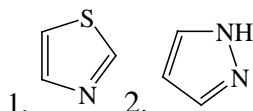
1. Write one synthesis of Oxazole, Imidazole, Thiazole and Benzoxazole each.
2. Classify drugs acting on Autonomic nervous system.
3. Give a brief note on types of receptor and explain any one receptor in details.

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

1. Explain concept of Bioisosterism in brief.
2. Write synthesis of Ranitidine.
3. Write SAR of Parasympathomimetics.
4. Give a brief note on Neuromuscular blocking agents and ganglionic blockers.
5. Give a brief note on a Pyrimidine heterocycles.
6. Write synthesis of Salbutamol.
7. Write skraup synthesis for Quinolines.
8. Explain SAR of β -Phenylethanolamine class.
9. Write synthetic methods and chemical reactions of Isoquinoline ring system.

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

1. Define and classify Antacids.
2. Write a short note on Partition coefficient.
3. Write mechanism of action of Proton pump inhibitors.
4. Explain Hydrogen bonding in brief.
5. Give name of following heterocyclic rings:



6. Explain drug therapy in brief.
7. Define: 1. Medicinal chemistry 2. Heterocyclic compound
8. Write synthesis of adrenaline.
9. How solubility affects drug action?
10. Explain in brief about Pka.