Seat No:	Enrollment No:
Deal NU.	IZHI OHIHEHLI IVO.

# PARUL UNIVERSITY FACULTY OF PHARMACY

### **B.Pharm.**, Winter 2017-18 Examination

Semester: 5 Date: 11/12/2017

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. What are Sympathomimetic Agents? Classify them with examples. Write SAR of Beta-Phenylethanolamine class.
- 2. Enumerate the physicochemical properties affecting biological activity. Explain Hydrogen bonding and Bioisosterism properties in detail.
- 3. What are heterocyclic compounds? Explain preparation and reaction of Quinoline.

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

(35)

- 1. Give SAR of Muscarinic Antagonists.
- 2. Write synthesis of Propranolol and Atenolol.
- 3. Write a short note on Neuromuscular blocking agents
- 4. Explain the Proton Pump Inhibitors in detail.
- 5. Write reaction mechanism of Fisher Indole synthesis.
- 6. Discuss types of forces involved in drug receptor interaction.
- 7. Explain synthesis and reaction of Pyrimidine.
- 8. Write a detail note on Antacids.
- 9. Write an informative note on Partition coefficient.

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

(20)

- 1. Why imidazole is less basic than pyrazole? Explain
- 2. Draw structure of Oxazole and Benzisoxazole.
- 3. Write synthesis of Dicyclomine HCl.
- 4. Describe any two reaction of Thiazole.
- 5. Explain geometrical isomerism with example.
- 6. Give any two name and structure of drug used as Ganglionic blockers.
- 7. Define Parasympathomimetics with example.
- 8. Outline the synthesis of Ranitidine.
- 9. Give any two preparation of Isoquinoline.
- 10. Explain transduction mechanism.