Seat No:	Enrollment No:
Seat 1100	

# PARUL UNIVERSITY FACULTY OF PHARMACY

## **B.Pharm. Summer 2018-19 Examination**

Semester: 5 Date: 29/04/2019

Subject Code: 08101301 Time: 10:00am to 01:00pm

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. Enumerate the various physicochemical properties affecting drug action and discuss each in detail.
- 2. Mention the name of any one five membered heterocyclic ring fused to one benzene ring. Discuss its methods of synthesis, nomenclature, reactions and pharmaceutical importance.
- 3. What are parasympathomimetics? Discuss SAR of parasympathomimetics. Write the synthesis of Dicyclomine.

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

(35)

- 1. Discuss the various types of forces involved in drug receptor interactions.
- 2. Mention the reactions and pharmaceutical importance of thiazoles.
- 3. Discuss the SAR of  $\beta$ -Phenylethanolamines.
- 4. Mention the synthesis, mechanism of action and uses of propranolol.
- 5. Write a note on neuromuscular blocking agents.
- 6. Mention the synthesis, mechanism of action and uses of salbutamol.
- 7. Explain the SAR of muscarinic antagonists.
- 8. Write the synthesis and uses of ranitidine.
- 9. Write the synthesis and mechanism of action of omeprazole.

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

(20)

- 1. Define enantiomers and diastereomers.
- 2. Mention the synthesis of oxazoles.
- 3. Mention the pharmaceutical importance of pyrimidine.
- 4. What are ganglionic blockers? Give examples.
- 5. Mention the synthesis of neostigmine.
- 6. Define sympathomimetic agents. Give examples.
- 7. Write the mechanism of action of antacids.
- 8. Write the classification of proton pump inhibitors.
- 9. Define antisecretary agents. Give examples.
- 10. Explain transduction mechanism.