Seat No:	Enrollment No:

PARUL UNIVERSITY FACULTY OF PHARMACY

B.Pharm. Winter 2019-20 Examination

Semester: 3 Date: 27/11/2019

Subject Code: 08101205 Time: 2:00 pm to 5:00 pm

Subject Name: Pathophysiology & Pharmacology 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. Explain the working mechanism of G-protein coupled receptor & nuclear receptor.
- 2. Discuss the causes and mechanisms of cell injury.
- 3. Explain in detail factors affecting absorption.

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

(35)

- 1. Explain Phase-I biotransformation reactions for drug metabolism.
- 2. Write a short note on acute and chronic inflammation.
- 3. Explain the working mechanism of open channels and gated channels.
- 4. Explain area under curve for single dose.
- 5. Enlist various types of hypersensitivity reaction and explain Type-I hypersensitivity reaction.
- 6. Write a note on biological effect of radiation.
- 7. Explain various mechanism of drug transportation.
- 8. Classify routes of drug administration and write a note on IV route.
- 9. Write a short note on apoptosis.

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

(20)

- 1. Explain immunological tolerance with suitable example.
- 2. Enlist various sources of drugs.
- 3. Define agonist and antagonist with example.
- 4. Explain is short Hyperplasia & Metaplasia.
- 5. Write a note on bioavailability and bioequivalence.
- 6. What is clinical pharmacy?
- 7. Define Amyloidosis
- 8. What is apparent volume of distribution?
- 9. Explain synergism and antagonism with example.
- 10. Define loading dose and maintenance dose.