

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

Semester: 3
Subject Code: 08101205
Subject Name: Pathophysiology & Pharmacology

Date: 14/12/2018
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. Classify Routes of administration of drugs And write merits & demerits of IV route of administration.
2. Outline Causes and mechanisms of cell injury and write a note on apoptosis.
3. Explain the mechanism of G-protein coupled receptor, kinase linked receptor.

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

1. **Write a note on sources of drugs**
2. Write a note on Hypersensitivity.
3. Outline Phase-I and Phase-II reactions.
4. Discuss Acute inflammation.
5. Enlist Target of drug action and write a note on transport proteins.
6. Write a note on factors affecting absorption.
7. Plasma protein binding.
8. Write a note mechanism of renal excretion.
9. Merits and demerits of oral and parenteral route of administration.

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

1. Define Plasma half life and Clearance.
2. Outline the working mechanism of ligand gated ion channel.
3. What is synergism and antagonism?
4. Hypertrophy.
5. Hyperplasia.
6. Biological effect of radiation.
7. Area under curve.
8. What is volume of distribution?
9. Loading dose and maintenance dose.
10. Metaplasia.