

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**B.Pharm. Summer 2017-18 Examination**

**Semester: 3****Subject Code: 08101205****Subject Name: Pathophysiology & Pharmacology****Date: 24/05/2018****Time: 02:00PM TO 05:00PM****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. Discuss etiology of cell injury. What is the difference between hypertrophy and atrophy?
2. Explain the factors affecting the absorption of drugs. Write a note on biotransformation.
3. Define acute inflammation. Write a note on acute inflammation.

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

1. Give the advantages and disadvantages of parenteral route of drug administration.
2. Explain the factors affect of drug excretion.
3. Write a note on G protein couple receptors.
4. Explain "Receptor Occupation theory" and "Two state receptor model theory" for drug receptor interactions.
5. Write a note on enzyme induction and enzyme inhibition with example.
6. Discuss etiology and pathogenesis of hypersensitivity II reactions.
7. Explain mechanism of apoptosis.
8. Write a note on Biological effect of radiation.
9. Discuss different sources of drugs.

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

1. Explain the following terms : 1) Drug 2) Maintenance dose
2. What is advantage of sublingual route of drug administration?
3. Define Synergism and Spare receptor.
4. Difference between comparative and noncomparative antagonist.
5. Write a difference between nuclear receptor and Kinase linked receptor.
6. Write a note on single dose and multiple doses.
7. Explain the term clearance and give its importance.
8. Define bioavailability and bioequivalence.
9. Compare and contrast of necrosis and apoptosis.
10. Explain importance of half life.