

University/College Name

B.Pharm Semester IV

Subject: Pharmacology-I

Unit-I: General Pharmacology

Time: 1 Hour

Maximum Marks: 15

(Note: This is a sample sessional question paper based on the PCI syllabus for BP404T.

Answer all questions. Figures in brackets indicate marks.)

Section A: Short Answer Questions (Attempt any 3 out of 4)

(3 × 3 = 9 Marks)

1. Define pharmacology and explain its scope in relation to other biomedical sciences. Mention any two historical landmarks in the development of pharmacology. (3)
2. Describe the various routes of drug administration with their advantages and disadvantages. Give examples for each. (3)
3. Explain the concepts of agonists and antagonists. Differentiate between competitive and non-competitive antagonists with examples. (3)
4. What is pharmacokinetics? Briefly discuss the processes of absorption and distribution of drugs across biological membranes. (3)

Section B: Long Answer Question (Attempt any 1 out of 2)

(1 × 6 = 6 Marks)

1. Discuss in detail the factors influencing drug metabolism and excretion. Explain enzyme induction and enzyme inhibition with suitable examples. Also, describe the kinetics of elimination. (6)
2. Define the following terms with examples: tolerance, dependence, tachyphylaxis, idiosyncrasy, and allergy. Explain the concepts of spare receptors and essential drugs. (6)

End of Question Paper