

DEPARTMENT OF PHARMACEUTICAL SCIENCES & TECHNOLOGY
BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(Internal Assessment I)

CLASS: BPHARM
BRANCH: PHARMACY

SEMESTER: IV
SESSION: SP 2025

SUBJECT: BP404T PHARMACOLOGY I

TIME: 2.00 Hour

FULL MARK: 30

PART I

- A. Objective-type questions (Answer all questions) (5 x 02 = 10 marks)
1. Provide two examples of leaves of plants used as sources of drugs.
 2. Briefly explain the influence of pH in the absorption of acidic drugs.
 3. State any FOUR names of routes of excretion of systemically absorbed drugs.
 4. Specify the volume of injections for intramuscular and intradermal administrations.
 5. Define pharmacodynamics and toxicology.

PART II

- B. Long Answers (Answer any one out of two) (01x10=10 marks)
1. Discuss different types of specialized drug transports across the cell membrane.
 2. Differentiate Phase-I and Phase-II metabolism. Write the names of the coenzymes/intermediates and enzymes involved in any five types of Phase II reactions.

PART III

- C. Short Answers (Answer any two out of three) (02x05=10 marks)
1. Define drugs. Explain different nomenclature of drugs with a suitable example.
 2. Discuss the advantages of inhalational routes of administration of drugs.
 3. Describe the naming procedures of cytochrome P450 enzymes.

::::::28/02/2025::::::E