

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

CLASS: BPHARM
BRANCH: PHARMACY

SUBJECT: BP302T PHYSICAL PHARMACEUTICS

TIME: 2.00 Hour

SEMESTER: III
SESSION: MO 2024

FULL MARK: 30

PART I

A. Objective type questions (Answer all questions) (5 x 2 = 10 marks)

1. Define Solubility.
2. Define critical solution temperature.
3. Differentiate between crystalline solid and amorphous solid.
4. Enlist the limitations of distribution law.
5. Define real solution.

PART II

B. Long Answers (Answer any one out of two) (01 x 10 = 10 marks)

1. Explain solubility of gas in liquids. Explain various factors affecting solubility of gas in liquid
2. With the help of suitable example explain the effect of ionic dissociation and molecular association on partition and distribution of drugs.

PART III

C. Short Answers (Answer any two out of three) (02 x 05 = 10 marks)

1. Explain distribution law and mention its applications.
2. With the help of a suitable example explain partial miscibility.
3. Discuss with the help of a suitable diagram the mechanism of solute solvent interaction.

*****19/09/2024*****E