

DEPARTMENT OF PHARMACEUTICAL SCIENCES & TECHNOLOGY

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(Internal Assessment I)

CLASS: BPHARM
BRANCH: PHARMACY

SEMESTER: II
SESSION: SP 2025

TIME: 2.00 Hour

SUBJECT: BP203T BIOCHEMISTRY

FULL MARK: 30

PART I

- A. Objective type questions (Answer all questions) (5 x 02 = 10 marks)
1. Differentiate derived lipids and compound lipids.
 2. Describe the Spontaneity of reaction in terms of free energy change and equilibrium constant.
 3. Differentiate oxidative phosphorylation and substrate level phosphorylation.
 4. Draw the structures of any two aromatic amino acids.
 5. Differentiate A DNA and B DNA.

PART II

- B. Long Answers (Answer any one out of two) (01x10=10 marks)
1. Describe the classification, functions and chemical properties of Carbohydrates.
 2. Describe Kreb's cycle in detail along with its energetics.

PART III

- C. Short Answers (Answer any two out of three) (02x05=10 marks)
1. Write the enzymatic steps involve in Glycolysis pathway.
 2. Describe High energy compounds with examples.
 3. Describe the structure and functions of different types of RNA.

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