

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION SP/2025)

CLASS: BSC.
BRANCH: MLT

SEMESTER : 2nd
SESSION : SP/2025

SUBJECT: BMT205 CLINICAL CHEMISTRY- I

TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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		CO	BL
Q.1(a)	Differentiate Exergonic and Endergonic reaction.	[2] 1	4
Q.1(b)	Discuss ATP-ADP cycle.	[3] 1	2
Q.2(a)	What is peptide? Discuss with structure.	[2] 1	2
Q.2(b)	Discuss fluid mosaic model of cell membrane with labelled diagram.	[3] 1	2
Q.3(a)	Write down the major digit of EC number for the enzymes Phosphofructokinase and Glyceraldehyde 3-phosphate dehydrogenase.	[2] 2	4
Q.3(b)	Enlist various applications of enzymes in the medical field.	[3] 2	3
Q.4(a)	Justify with example that one enzyme can catalyze more than one substrate, and one substrate can be catalyzed by more than one enzyme	[2] 2	3
Q.4(b)	How do enzymes accelerate biochemical reactions? Discuss with graph and examples.	[3] 2	4
Q.5(a)	Differentiate Glycogenolysis and Glycogenesis.	[2] 3	4
Q.5(b)	Discuss the process of glycolysis with the help of a flow chart.	[3] 3	2

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