

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION MO/2023)

CLASS: BTECH/IMSC/BHMCT
BRANCH: BT/CIVIL/CHEMICAL/MECH/PIE/FT/PHYSICS/HMCT

SEMESTER : I
SESSION : MO/2023

SUBJECT: BE101 BIOLOGICAL SCIENCE FOR ENGINEERS

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)	What are the various stages of biological organization?	[2] 1	1
Q.1(b)	Describe Miller Urey experiment with its significance.	[3] 3	2
Q.2(a)	Write the sources and disorder caused by vitamin A and vitamin B1.	[2] 2	2
Q.2(b)	Compare plant cell and animal cell with diagram.	[3] 2	1
Q.3(a)	Describe the classification of carbohydrates.	[2] 2	1
Q.3(b)	Describe the stages of mitosis cell division.	[3] 3	2
Q.4(a)	What are the levels of protein structure?	[2] 2	2
Q.4(b)	Describe the steps of glycolysis pathway with diagram.	[3] 3	3
Q.5(a)	What is Gibbs Free Energy?	[2] 2	2
Q.5(b)	Write note on aerobic and anaerobic respiration and its location in cell.	[3] 3	2

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