BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION SP2023)

CLASS: BRANCH:		SEMESTER : lind SESSION : SP/2023			
TIME:	SUBJECT: BE101 BIOLOGICAL SCIENCE FOR ENGINEERS 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 					
Q.1(a) Q.1(b)	Draw a schematic diagram of cell cycle. Who gave the Chemosynthetic theory for the origin of life? Describe an experim to prove the Chemosynthetic theory of the origin of life.	ıent	[2] [3]	CO 1 2	BL 2 3
Q.2(a) Q.2(b)	Differentiate between Mitosis and Meiosis. Who proposed cell theory? Discuss its components and limitations.		[2] [3]	3 1	2 2
Q.3(a) Q.3(b)	Define carbohydrates. Classify carbohydrates with examples. Why does protein show diversity? List the functions of Protein.		[2] [3]	3 4	1 1
Q.4(a) Q.4(b)	Define Entropy. Does photosynthesis reduce local entropy? Describe the process of Glycolysis. Where does it occur and what is the production of ATP in glycolysis?	net	[2] [3]	4 1	4 1
Q.5(a) Q.5(b)	Diagrammatically differentiate plant cell and animal cell. What are the 5 differences between aerobics and anaerobic respiration? Is there similarity between them?	any	[2] [3]	2 3	2 1

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