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

BTECH CLASS: BRANCH: CSE/AI&ML/ECE/EEE

SEMESTER: IInd

SESSION: SP/2023

02 Hours TIME:

SUBJECT: BE101 BIOLOGICAL SCIENCE FOR ENGINEERS

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.

3. The missing data, if any, may be assumed suitably.

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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 experiment to prove the Chemosynthetic theory of the origin of life.	[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	2
Q.3(a)	Define carbohydrates. Classify carbohydrates with examples. Why does protein show diversity? List the functions of Protein.	[3]	1	2
Q.4(a)	Define Entropy Day	[3]	4	1
Q.4(b)	Define Entropy. Does photosynthesis reduce local entropy? Describe the process of Glycolysis. Where does it occur and what is the net	[2] [3]	4	4
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 any	[2] [3]	2 3	2
				3

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