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

CLASS: BTECH SEMESTER: IV
BRANCH: MECH/PROD/CIVIL/BT/CHEMICAL/CEP&P SESSION: SP/2020

**SUBJECT: BE101 BIOLOGICAL SCIENCE FOR ENGINEERS** 

TIME: 2 HOURS FULL MARKS: 25

## **INSTRUCTIONS:**

- 1. The total marks of the questions are 25.
- 2. Candidates may attempt for all 25 marks.
- 3. Before attempting the question paper, be sure that you have got the correct question paper.
- 4. The missing data, if any, may be assumed suitably.
- 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

.....

Q1 Q1	(a) (b)		[2] [3]	CO 1 1	<b>BL</b> 1 2
Q2 Q2	(a) (b)	' "	[2] [3]	1 3	2
Q3 Q3	(a) (b)	· · · · · · · · · · · · · · · · · · ·	[2] [3]	1 3	2
Q4	(a)		[2]	1	1
Q4	(b)	expression. Enlist the different types of respiration. Compare their output and significance.	[3]	3	2
Q5 Q5	(a) (b)	What is meant by Entropy and Gibb's free energy?  Demonstrate the various steps of Kreb's cycle with special emphasis on the output molecules of the process.	[2] [3]	3	2

:::::: 27/02/2020 :::::E