

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

CLASS: BE
BRANCH: ALL

SUBJECT : BT3021 BIOLOGICAL SCIENCES

SEMESTER : III
SESSION : MO/15

TIME: 1.5 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total value of the questions are 30 marks.
2. Candidates may attempt for all 30 marks.
3. In those cases where the marks obtain exceed 25 marks. The excess will be ignored.
4. Before attempting the question paper, be sure that you have got the correct question paper.
5. The missing data, if any, may be assumed suitably.

Q1. ~~(a)~~ How can we classify the living world? [2]
(b) Describe the Miller's experiment with diagram. [3]

Q2. (a) What are the different characteristics of life? [2]
(b) What are the levels of biological organization? [3]

Q3. (a) What is nucleic acid? Write their functions. [2]
(b) Describe the different levels of protein with diagram. [3]

Q4. (a) What are essential minerals? [2]
(b) Write the function of fat soluble vitamins. [3]

Q5. ~~(a)~~ Compare the aerobic and anaerobic respiration. [2]
(b) Describe the glycolysis pathway. [3]

Q6. (a) What do you mean by bioenergetics? [2]
(b) How fatty acids can be degraded by metabolism. [3]

***** 21.09.2015 E*****