

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

**CLASS: IMSC
BRANCH: FOOD TECH.**

**SEMESTER: I
SESSION : MO/2019**

SUBJECT : BE203 MICROBIOLOGY

TIME: 2.00 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.
-

- Q1 (a) Define & classify sterilization. [2]
Q1 (b) What are the different types of culture media with examples? [3]
- Q2 (a) Define micrometry. [2]
Q2 (b) Differentiate between compound microscope and electron microscope. [3]
- Q3 (a) Define synchronous culture. [2]
Q3 (b) Schematize with aid of a neat diagram the structure of a bacteria. [3]
- Q4 (a) What are Methanogens? Give examples. [2]
Q4 (b) Discuss the growth curve of bacteria. [3]
- Q5 (a) What do you mean by primary treatment of waste water? [2]
Q5 (b) Discuss the bacteriological analysis of water with respect to MPN. [3]

: : : : : 16/10/2019 M : : : : :