

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

CLASS: IMSC
BRANCH: FOOD TECH.

SEMESTER: II
SESSION : SP/2019

SUBJECT : BE203 MICROBIOLOGY

TIME: 2.00 HOURS

FULL MARKS: 25

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.
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- Q1 (a) Which staining method would you select to distinguish between gram positive and gram negative bacteria? Describe its principle [2]
Q1 (b) Classify culture media used for bacterial growth [3]
- Q2 (a) Make a distinction between Scanning Electron Microscope & Transmission Electron Microscope? [2]
Q2 (b) Select and describe any **two** air samplers for analysis of microbes in air [3]
- Q3 (a) Differentiate between batch and continuous bacterial culture [2]
Q3 (b) What are the features of Archaeobacteria? Classify them [3]
- Q4 (a) Identify the features considered in viral classification citing suitable examples [2]
Q4 (b) Select and describe any **two** physical factors affecting microbial growth [3]
- Q5 (a) What are the features of multiple tube fermentation test used for bacteriological analysis of water [2]
Q5 (b) Categorize the steps involved in municipal water treatment [3]

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