

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

**CLASS: I MSc  
BRANCH: FOOD TECH.**

**SEMESTER: I  
SESSION: MO/2022**

**SUBJECT: BE203 MICROBIOLOGY**

**TIME: 2 HOURS**

**FULL MARKS: 25**

**INSTRUCTIONS:**

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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- Q1      How you can differentiate between Gram-positive and Gram-negative bacteria?      [5]
- Q2    (a) How you can isolate the pure culture of bacteria from a mixed population?      [2]  
Q2    (b) Name of different media used for culturing the bacteria?      [3]
- Q3      How microbes are useful for industrial applications?      [5]
- Q4      Describe in brief the function of ribosome and mitochondria?      [5]
- Q5      How a microbe can be used for the removal of environmental pollutants?      [5]

:::::: 18/01/2023 :::::M