NS-3458(N)

B.Sc. (Biotechnology)

Examination, June-2022 MICROBIOLOGY

(B-104)

(New)

(B.Sc. Biotech.)

Time: Three Hours] [Maximum Marks: 50

Note: Attempt any **five** questions. **Each** question carries equal marks.

- What do you mean by Pasteurization?
 Write down the Pasture's experiments in details.
- What is Gram Staining? Differentiate between Gram Positive and Gram Negative Bacteria with suitable example.

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- 3. Write short notes on any two of the following:
 5 each
 - (a) Discovery of Microscope
 - (b) Concept of Sterilization
 - (c) Kind of Flagella
- What are antibiotics? Describe commercial production of Streptomycin antibiotic.
- Write down the industrial importance of microbes and their uses in dairy industry.
- Discuss two diseases caused by protozoa,
 their symptoms and spread by insects.

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What is infection? Describe any two pathogenic microorganism of food and their control measures.

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- 8. Write short notes on any two of the following:
 5 each
 - (a) Replica Plating Technique
 - (b) Strain improvement by Selection
 - (c) Phosphate solubilising Bacteria
- What do you mean by nitrogen fixation?
 Discuss the importance of nitrogen fixation in agriculture.
- 10. Write short notes on the following:

5 each

- (a) Viral diseases of major crops
- (b) SCP