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Exam. Code: 107403 Subject Code: 1843

# B.Sc. Biotechnology 3rd Semester AGRO AND INDUSTRIAL APPLICATIONS OF MICROBES-A

# Paper—BT-7

Time Allowed—3 Hours [Maximum Marks—40

Note: Section A (1×8 marks) is compulsory. Section B  $(5 \times 4 \text{ marks})$ : Attempt any **FIVE** questions. The answer should not exceed TWO pages. Section C ( $6 \times 2$  marks): Attempt any **TWO** questions. The answer should not exceed 5 pages.

### SECTION-A

#### (Compulsory)

Write a brief account of the following.

- How to select an enzyme producer bacterium? I. (a)
  - Name two microbes applied for alcohol production. (b)
  - (c) Which processes are used in a baking industry?
  - What is a fermentor? (d)
  - Mutations as improver of a desired strain of microbe. (e) Comment.
  - Bacillus thrugenesis. (f)
  - What are the identification features of Rhizobium (g) nodules on the roots?
  - Azobacter importance in Agro industry.

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(Contd.)

# SECTION—B

# Attempt any FIVE questions.

- II. How to Identify the lactic acid producering bacteria?
- III. Which tests are formed to confirm coliform bacteria?
- IV. Give the protocol for maintenance of yeasts important in industry.
- V. Write down briefly the methods and need of preservation desired microorganism.
- VI. Which types of processes need to be optimized for the agro industrial microbes?
- VII. Describe the factors which can improve the product formation in a microbe.
- VIII. Give the mechanism of nitrogen fixation by microbes.
- IX. The soil microorganisms are important in agriculture. Comment.

## SECTION—C

## Attempt TWO questions.

- X. Describe the various microbial processes and the instrumentation required for these processes in a dairy industry.
- XI. Which chemical processes are applied in an industry of bakery products?
- XII. Which methods can be used to revert back the higher yielders of products?
- XIII. Write notes on: Growing Azospirillium and Agrobacterium.

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