Exam. Code : 107404 Subject Code 2247

B.Sc. Bio-Technology Semester-IV

AGRO AND INDUSTRIAL APPLICATIONS OF MICROBES-B

Paper-BT-7

Time Allowed—3 Hours] [Maximum Marks—40]

SECTION-A

Attempt All Questions.

Answer the following:

- 1. Feed-batch culture
- Cry proteins
- 3. Citric acid
- 4. Bio-pesticides
- 5. Biotransformation
- 6. Synthetic medium
- 7. Myco-herbicides
- 8. Secondary metabolites.

1×8=8

SECTION-B

Attempt any five questions.

- Describe the process of masting for the production of beer.
- Describe the process of microbial production of glutamic acid.

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(Contd.)

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3.	Discuss various strategies for the optimization of phenylalanine production.
4.	Describe various stages of composting. 4
5.	Describe various nitrogen sources used in microbia medium.
6.	Discuss the role of fungi as bio-pesticides. 4
7.	What do you understand by fed batch culture also write the advantages of fed batch culture?
8.	Describe the process of vinegar production. 4 SECTION—C
	Attempt any two questions.
1.	What are microbial pesticides? Discuss their importance
	in pest management.

- Describe the design and operation of conventional fermenter used for alcoholic fermentation.
- What are single cell proteins? Describe the process for the production of single proteins.
- What are bio-fertilizers and their uses? Describe the process of mass production of algal bio-fertilizers.

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