a2zpapers.com

Exam. Code : 107404 Subject Code : 1864

B.Sc. (Biotechnology) 4th Semester BT-7 : AGRO AND INDUSTRIAL APPLICATIONS OF MICROBES—B

Time Allowed—3 Hours] [Maximum Marks—40

- Note :—(1) Section A is compulsory and the maximum length of each answer can be about 1/3 of a page. Each question carries 1 mark.
 - (2) Attempt FIVE questions from Section B and the maximum length of each answer can be upto 2 pages. Each question carries 4 marks.
 - (3) Attempt TWO questions from Section C and the maximum length of each question can be upto 5 pages. Each question carries 6 marks.

SECTION—A

- 1. What do you understand from solvent production ?
- 3. What are single cell proteins ?
- 4. What are biofertilizers ?
- 5. What do you understand from mycoherbicides?
- 6. What do you understand from plant microbe interactions ?
- 7. What do you understand from biochips?
- 8. Wine Vs. Beer. Explain.

3132(2519)/EBH-18670

1

(Contd.)

www.a2zpapers.com www.a2zpapers.com oad free old Question papers gndu, ptu hp board, punjab

SECTION-B

- 1. Discuss briefly the microbes involved in pharmaceutical drugs and surfactants production.
- 2. Describe briefly vermiculture and composting. Also highlight their advantages.
- 3. Describe the production of red wine with a flow diagram.
- 4. Describe the production of two important amino acids.
- 5. Describe briefly the role of BT gene in BT cotton.
- 6. What is mycorrhizal fungi? Describe its applications in agrobiotechnology.
- 7. Describe the production of citric acid and glutamic acid.
- 8. Describe the production technology of cheese making.

SECTION-C

- 1. Discuss herbicides and biopesticide production giving suitable examples.
- 2. What are biotransformations ? Describe various products produced by biotransformation.
- 3. What is biological nitrogen fixation ? Describe the role of *Rhizobium* in leguminous plants.
- 4. Describe the production of important primary and secondary metabolites giving suitable examples of both.

3132(2519)/EBH-18670

2

400

www.a2zpapers.com www.a2zpapers.com ad free old Question papers gndu, ptu hp board, punjab