www.a2zpapers.com

Exam. Code: 107404 Subject Code: 2147

B.Sc. Bio-Technology Semester-IV AG'AO AND INDUSTRIAL APPLICATIONS OF MICROBES-B

Paper-BT-7

Time Allowed—3 Hours]

[Max. Marks-40

SECTION-A

Attempt ALL questions.

- 1. Answer the following:
 - (a) Amylase production
 - (b) Antibiotic
 - (c) Masting
 - (d) Fermentation
 - (e) Mycorrhizae
 - (f) BT Cotton
 - (g) Feed-batch culture
 - (h) Cheese

 $1 \times 8 = 8$

SECTION-B

Attempt any FIVE questions.

 Write the advantages of vermicomposting over traditional composting.

3132(2416)/QFV-2032

(Contd.)

www.a2zpapers.com

| 5. | Describe various modes of media sterilization. 4 |
|----|--|
| 4. | Describe with the help of flow chart the process for the production of acetic acid. 4 |
| 5. | Describe the importance of mycorrhizae in growth. 4 |
| 6. | Describe the process of microbial production of butanol. |
| 7. | Draw and describe the typical growth curve of microbial fermentation and write the significance of each phase. |
| 8. | Describe the advanages and disadvantages of plant-microbe interactions. |
| 9. | Describe the role of microbes in the biotransformation of molecules. 4 |
| | SECTION-C |
| | Attempt any TWO question: |
| 1. | What are antibiotics? Describe the process of industrial production of pencillin. |
| 2. | What are different types of cheese? Write the process |
| | of cheese production. |
| 3. | What are single cell proteins? Describe the process for the production of single proteins. |
| 4. | Name the various enzymes used in paper industry. Write in detail the methods for the industrial production of cellulase. |

600

3132(2416)/QFV-2032