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B.Tech. Sixth Semester (Food, P & P O & P and Petro Tech.) (CGS)

11046 : Food Technology-III : 6 FT 04

P. Pages: 2

AW - 3260

Time: Three Hours Max. Marks: 80 Notes: 1. Answer three question from Section A and three question from Section B. 2. Diagrams and chemical equations should be given wherever necessary. 3. Illustrate your answer necessary with the help of neat sketches. **SECTION - A** 1. a) What are the goals of classification of bacteria? Describe DNA homology experiment 8 with its significance. b) Describe external structure of bacteria. 6 OR 2. a) Describe pour plate technique for isolation of pure culture. 6 8 b) Describe physical methods of selection & isolation of pure culture. 3. a) Enlist chemical agents used for control of microorganisms with mechanism of action of 8 any two. Draw a neat labelled diagram of autoclave. 5 b) OR 8 Describe normal growth curve of bacteria. 4. a) 5 b) Name the microorganisms responsible for following activity. Bread fermentation 1) 2) Fungal single cell protein 3) Poultry spoilage 4) Yoghurt fermentation 5) Wine fermentation 8 What is pasteurization of milk? Specify time & temp conditions. Explain phosphatase test. 5. a) 5 b) Enlist various methods of food preservation. OR 8 6. a) Describe extrinsic parameters of foods that affect microbial growth. 5 b) Write a note on controlled Atmosphere storage.



## www.FirstRanker.com SECTION - B

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| 7.  | a) | Describe lactic acid fermentation of whey.  | 5           |
|-----|----|---|-------------|
|     | b) | Write a note on food irradiation.   | 5           |
|     | c) | Give industrial applications of yeasts.   | 4           |
|     |    | OR  |             |
| 8.  | a) | What is phenol coefficient? How it is determined.   | 7           |
|     | b) | Define water activity. Explain its relation to microbial food spoilage.                         | 7           |
| 9.  | a) | Explain various routes of food contamination.   | 8           |
|     | b) | Explain bakers yeast manufacture.   | 5           |
|     |    | OR  |             |
| 10. | a) | What is thermal death time? Explain D, Z & F Valves.  | 8           |
|     | b) | Write a note on industrial applications of bacteria.  | 5           |
| 11. | a) | Write note on following.  1) Freeze drying 2) Aseptic packaging 3) Food antibiotics             | 5<br>5<br>4 |
|     |    | OR  |             |
| 12. | ٠  | Write notes on following.  1) Wine fermentation 2) Yoghurt fermentation 3) Vinegar fermentation | 5<br>4<br>5 |

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