

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Food Technology) (Sem.-4)

**FOOD MICROBIOLOGY**

Subject Code : BTFT 225-19

M.Code : 79979

Date of Examination : 09-07-22

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A**

**1. Write briefly :**

- a) What is the difference in structure of yeast and mold?
- b) What is single cell protein? Give 2 examples.
- c) What is difference in food infection and food poisoning?
- d) Name the bacteria which cause off-odors, off-flavors, and discolorations, in foodstuffs.
- e) What is the starter culture of sauerkraut?
- f) What are you understand by neurotoxins. Name the microorganism responsible for it.
- g) What are various bacteria responsible for fish spoilage and also write type of spoilage produced by them?
- h) Which culture is used in cheese production and why?
- i) Differentiate between salmonella and shigella food poisoning.
- j) What are the two stages of fermentation to produce vinegar?

### SECTION-B

2. a) Draw the structure of bacterial cell and write the method of reproduction in bacteria.  
b) What kind of microbial spoilage observed in fresh meat?
3. Write about the microbial spoilage in butter.
4. How is the microbial spoilage prevented in spices?
5. What is difference in moisture content and water activity? How its determination is helpful in prevention of microbial spoilage?
6. What kind of cultures used in fermented milk products?

### SECTION-C

7. Write the various physical agents used to control microbial growth in food materials
8. Explain the various microbial growths in canned foods along with the reason.
9. Explain the different phases of bacterial growth in detail using suitable diagram.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**