Roll No.

Total No. of Pages: 02

Total No. of Questions: 15

M.Sc. (Food Technology) (2019 Batch PIT) (Sem.-1) FOOD MICROBIOLOGY

Subject Code: UC-MSFT-513-19

M.Code: 77273

Time: 3 Hrs. Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

- SECTION-A contains SEVEN questions carrying TWO marks each and students has to attempt ALL questions.
- 2. SECTIONS-B consists of FOUR Subsections: Units-I, II, III & IV. Each Subsection contains TWO questions each carrying FOURTEEN marks each and student has to attempt any ONE question from each Subsection.

SECTION-A

- 1. Enlist two important historical developments in the field of food microbiology.
- 2. What do you understand by alfatoxins? Give examples. Define food intoxication
- 3. along with example. Write the name of principal microorganisms used for yogurt
- 4. production. What is water activity? What do you understand by food safety? What
- 5. are the causes of spoilage of food?

6.

7.

SECTION-B

UNIT-I

- 8. Write briefly about:
 - a) Types of microorganisms normally associated with food along with examples.
 - b) Contamination of vegetables and meat during handling and processing.
- Define food microbiology. Discuss the three and five kingdom classification along with diagram.

1 | M-77273 291

UNIT-II

- 10. a) Discuss the deterioration of various types of food products.
 - b) Write short note on low temperature storage and chemical preservatives.
- 11. a) Explain the different intrinsic factors which effect the microbial growth.
 - b) Discuss the microbiology of food preservation along with some examples of food products.

UNIT-III

- 12. Define fermentation. Explain the different fermented beverages along with flow diagram.
- 13. Write short notes on the following:
 - a) Fermented meat products
- b) Production of beer and vinegar

UNIT-IV

- 14. a) What are microbial toxins? Explain the various bacterial agents of food borne illness.
 - b) Explain the hurdle technology and its applications.
- 15. Write short note on:
 - a) Non-bacterial agents of food borne illness
 - b) Microbial standards for different foods

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

2 | M-77273 291