

www.FirstRanker.com

www.FirstRanker.com

	Roll No.		L	L										Total No. of Pages: 0
--	----------	--	---	---	--	--	--	--	--	--	--	--	--	-----------------------

Total No. of Questions: 18

B.Tech. (Food Technology) (Sem.-3)
INTRODUCTION TO BIOLOGY AND MICROBIOLOGY

Subject Code: BTFT-211-19 M.Code: 78728

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

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

SECTION-A

Write briefly:

- 1) What is the difference between Meiosis and mitosis?
- 2) What are the functions of Nucleus and Nucleolus?
- 3) What do you understand by Nitrogen mineralization?
- Name the microorganism involved in curd, yoghurt and cheese.
- 5) What is the role of microorganisms in the pest control?
- 6) What kind of foods spotled by the yeast and molds?
- 7) What kind of microorganisms are associated with soil fertility?
- Enlist the various factors affecting the growth of microorganism.
- 9) What is the difference between beta oxidation of saturated and unsaturated fatty acids?
- 10) Differentiate between the macro and micro nutrients. What are the sources of micro nutrients?

1 M - 78728 (S2) - 360

SECTION-B

- 11) What do you understand by DNA replication and protein synthesis?
- 12) What is the difference among the osmosis, active transport endocytosis, and exocytosis?
- 13) Write down the various classes of enzymes. Differentaiate between oxidoreductases and isomerases with examples.
- 14) What is the difference in food borne infections and intoxication?
- Write about the four distinct phases of the growth curve.

SECTION-C

- Explain in detail the process of Nitrogen Cycle with suitable diagram.
- a) Write down the existence, transmission and symptoms of Clostridium botulinum and Bacillus Cereus Foodborne Intoxication.
 - of glycolysis and b) Write down a short note of microbiology of water.
- 18) Explain in detail the process of glycolysis and Citric Acid Cycle.

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.

2 | M - 78728 (S2)-360

