

FACULTY OF SCIENCE**M. Sc. IV – Semester Examination, May / June 2015****Subject : Microbiology****Paper – III****Microbiology of Food and Environment****Time : 3 Hours****Max. Marks: 80****Note : Answer all questions from Part–A and Part–B. Each question carries 4 marks in Part–A and 12 marks in Part – B.****PART – A (8 x 4 = 32 Marks)****(Short Answer Type)**

- 1 Yogurt
- 2 Mycotoxins
- 3 Rumen microbiology
- 4 Composting
- 5 Rhizosphere
- 6 Recalcitrant pesticide
- 7 MPN and Indicator organisms
- 8 Trickle filters

PART – B (4 x 12 = 48 Marks)**(Essay Answer Type)**

- 9 (a) Discuss the types, importance and role of microbes in fermented milk products.
OR
(b) Discuss food spoilage, factors influencing spoilage and preservation methods of foods.
- 10 (a) Explain the microbial degradation of agricultural waste for fuel production.
OR
(b) Give an account of methanogenesis.
- 11 (a) Discuss the role of microbes in degradation of insecticides.
OR
(b) Describe types and importance of Mycorrhizal fungi.
- 12 (a) Describe the types of microbes in air and their importance.
OR
(b) What are the pathogenic microbes involved in water borne diseases and write a brief note on the sanitary quality of water.
