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. Trickling 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.
(b) Discuss food spoilage, factors influencing spoilage and preservation methods of foods.

10. (a) Explain the microbial degradation of agricultural waste for fuel production.
(b) Give an account of methanogenesis.

11. (a) Discuss the role of microbes in degradation of insecticides.
(b) Describe types and importance of Mycorrhizal fungi.

12. (a) Describe the types of microbes in air and their importance.
(b) What are the pathogenic microbes involved in water borne diseases and write a brief note the sanitary quality of water.

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