

**FACULTY OF SCIENCE**  
**M. Sc. IV – Semester Examination, May / June 2016**

**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 Sauerkraut
- 2 Idli
- 3 Rumen
- 4 Confirmed test
- 5 Insecticide degrading microbes
- 6 Rhizosphere
- 7 Methanogenesis
- 8 Septic tank

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

- 9 (a) Describe the microflora of milk and add a note on their control.  
 OR  
 (b) Describe the various methods of Food prevention techniques.
- 10 (a) Describe in detail about methanogenic bacteria and their role in biogas production.  
 OR  
 (b) Write about the microbial and animal interactions in termites.
- 11 (a) Write about the role of microbes in degradation of any two herbicides.  
 OR  
 (b) Describe the various types of Mycorrhizal associations and write about their importance.
- 12 (a) Describe the various diseases caused by water borne pathogens.  
 OR  
 (b) Give detailed account on sewage water treatment and explain the role of microbes in the treatment.

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