

**FACULTY OF SCIENCE**

**B.Sc. III – Year Examination, March / April 2015**

**Subject: Microbiology**

**Paper – IV**

**Applied Microbiology**

**Time: 3 Hours**

**Max.Marks: 100**

**Note: Answer All questions from Part – A and Part - B.**

**PART – A (8x5 = 40 Marks)**

**[Short Answer Type]**

- 1 Cyanobacteria
- 2 Trichoderma
- 3 Parasitism
- 4 Denitrification
- 5 Salmonellosis
- 6 Fish spoilage
- 7 Vitamin B<sub>12</sub>
- 8 Strain improvement

**PART – B (4x15 = 60 Marks)**

**[Essay Answer Type]**

- 9 a) Describe groundnut rust disease caused by fungi.  
**OR**  
b) Explain the importance of phosphate solubilising microbes in agriculture.
- 10 a) Describe how sewage treatment is done.  
**OR**  
b) Explain the role of microbes in carbon cycle.
- 11 a) Explain how fermented foods are produced by microbes with examples.  
**OR**  
b) Describe various food preservation methods.
- 12 a) Describe the production of citric acid by fungal fermentation.  
**OR**  
b) Explain how biofermenter is designed with a note on each component.