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 B₁₂
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.