

FACULTY OF SCIENCE

B.Sc. III – Year Examination, March / April 2016

Subject : MICROBIOLOGY

**Paper – IV
Applied Microbiology**

Time : 3 hours

Max. Marks : 100

Answer all questions from Part-A and Part-B.

Part – A (8 X 5 = 40 Marks)
(Short Answer Type)

- 1 Rhizosphere
- 2 Phyllosphere
- 3 Mutualism
- 4 Conform test
- 5 Appertization
- 6 Mushrooms
- 7 Strain improvement
- 8 Fermentor

Part – B (4 X 15 = 60 Marks)
(Essay Answer Type)

- 9 a) Write a detailed account on biological nitrogen fixation.
OR
b) Discuss biological control of plant diseases.
- 10 a) Explain role of microorganisms in environment.
OR
b) Write an account on sewage treatment.
- 11 a) Discuss the principles of spoilage of different food materials.
OR
b) What are the methods of food preservation and explain the principles involved in it?
- 12 a) Write an account on screening and isolation of industrially important microorganisms.
OR
b) Describe the fermentative production of penicillin.
