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.

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