

Exam.Code:0003

Sub. Code: 0279

1127

B.A./B.Sc. (General) Third Semester

Industrial Microbiology

IMB-302: Agricultural Microbiology

Time allowed: 3 Hours

Max. Marks: 33

**NOTE:** Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Attempt the following:-

- a) Bioherbicides
- b) Symptoms and causes of yellow mosaic disease
- c) Use of nucleotides as nitrogen source for growth (3x3)

#### UNIT – I

- II. What are biocontrol agents? Give their applications with examples. (6)
- III. a) Write a note on importance of Rhizobium and Azotobacter in agriculture?  
b) Write a note on blue green algae as biofertilizer? (2x3)

#### UNIT – II

- IV. Describe the mechanism of microbial pathogenicity in plant disease? (6)
- V. Write a note on:-
  - a) Citrus cankers
  - b) Smut of wheat (2x3)

#### UNIT – III

- VI. What are the reasons of spread of diseases in animals? Write a note on rinderpest. (6)
- VII. Describe the steps taken to control animal disease. (6)

#### UNIT – IV

- VIII. Discuss importance of sulphur utilizing bacteria and their role in sulphur reduction pathway? (6)
- IX. What is methanogenesis? Describe the process and its limitations. (6)

x-x-x