

2122

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. Explain/define/comment:-

- a) *Bacillus thuringiensis*
- b) Blight of Rice
- c) FMD
- d) Xanthine oxidase
- e) Biomagnification
- f) TMV

(6x1½)

UNIT - I

- II. Write a comprehensive note on status of blue green algae as biofertilizers. (6)
- III. Describe by taking suitable examples the development and mechanism of action of Bioherbicides. (6)

UNIT - II

- IV. Describe common symptoms of different plant diseases. (6)
- V. Describe pathogenicity and control of rust of wheat. (6)

UNIT - III

- VI. Write down different routes for the spread of diseases in animals. (6)
- VII. Describe mechanism of biodegradation of pesticides. (6)

UNIT - IV

- VIII. Write down economic importance of methylotrophs and methanogens. (6)
- IX. Describe sulphate reduction pathway. (6)

x-x-x