Exam.Code:0003 Sub. Code: 0279

2123

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.

Explain/define/comment (any six):a) Collego b) Blight of Rice c) FMD d) Biomagnification e) Sulphur utilizing bacteria f) Nucleic acid degradation g) Anabaena azolla interaction h) Chlorosis $(6x1\frac{1}{2})$ UNIT - I Describe the role and mechanism of action of Bacillus thuringiensis as bio II. insecticides. (6)III. Describe role of Rhizobium as fertilizer in legumes. (6) UNIT - II IV. Describe microbial pathogenicity of Bhindi yellow mosaic plant disease. (6) Describe pathogenicity and control of rust of wheat. V. (6)UNIT - III VI. Write down different routes for the spread of diseases in animals. (6) Describe by taking suitable example the mechanism of biodegradation of pesticides. VII. (6)UNIT - IV

Write down economic importance of methylotrophs and methanogens. (6)VIII.

Describe sulphate reduction pathway and its significance. (6)IX.