



M.Sc IV Semester Degree Examination, Sept./Oct. - 2024

MICROBIOLOGY

MB DES-1 : Agriculture Microbiology

(NEP)

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any five** of the following questions with questions no.1 is **compulsory**, each question carries **equal** marks.

1. Describe the mechanism of biological nitrogen fixation. **14**
2. Describe the steps involved in root nodule formation. **14**
3. Explain the production and application of fungal biopesticides. **14**
4. Discuss etiology, pathogenesis, symptoms and control measures of banana bunchy top viral disease. **14**
5. Discuss in detail the development and application BT cotton plant. **14**
6. (a) Discuss Antagonism with examples. **5**
(b) Explain in detail about integrated pest management. **5**
(c) Write a note on phosphate solubilising microorganisms. **4**
7. (a) Briefly explain etiology, symptoms and control measures of Bacterial wilt of tomato. **7**
(b) Write a note on GMOs. **7**
8. (a) Write an account on Rhizosphere. **5**
(b) Explain the etiology of TMV. **5**
(c) Write a note on nod genes. **4**

