

B.Sc. Semester - 4 (NEP-2020) Examination

March/April-2025

Microbial Products: Bio-Fertilizer & Bio-Pesticides (Skill Enhancement Course)

Time: 1:00 Hours

Marks: 25

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate marks.
3. Illustrate your answer with neat and labelled diagrams.

Que-1 1. Describe the advantages of biofertilizers over chemical fertilizers. (05)

2. Explain the role of Rhizobium in nitrogen fixation. (05)

OR

Que-1 1. What are the different types of Rhizobium? Discuss their inoculum production.

2. Explain the symbiotic relationship of Frankia with plants.

Que2 1. Explain the role of cyanobacteria as biofertilizers in rice cultivation. (05)

2. Describe the mass production of phosphate-solubilizing microbes. (05)

OR

Que2 1. Discuss the importance of VAM and its field applications.

2. Explain the microbial role in phosphorus solubilization.

Que3 Answer the following(Any one) (05)

1. Explain the process of microbial degradation in biofertilizer production.

2. Describe the role of microbial bioinsecticides in integrated pest management.
