



RAN-2303080602060001

M. Sc. (Sem. - II) Examination September - 2025

Microbiology (Paper - GE-1) Biofertilizer Production and Organic Farming

Time: 2 Hours]

[Total Marks: 30

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) Figures to the right indicate full marks of the question.
- (3) Draw neat and labeled diagrams whenever necessary.

Seat No.:

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Student's Signature

Q. 1. Explain any one of the following:

(08)

- a. Explain in detail how biofertilizers contribute to sustainable agriculture.
- b. Describe *Azotobacter* and *Azospirillum* inoculants used in organic farming.
What are their specific functions?

Q. 2. Explain on any one of the following:

(07)

- a. Discuss the optimization of composting parameters.
- b. Explain the supply chain management of biofertilizers from production to end users.
Also, discuss the benefits of organic farms.

Q. 3. Write a short note on any three of the following:

(15)

- a. Type and benefits of biofertilizers.
- b. Green manuring.
- c. Composting technology and its importance.
- d. Prospects of the biofertilizer industry in Indian and global agriculture.