

2025

M.Sc. 3rd Semester Examination

MICROBIOLOGY

Paper : MCB - 303

(Agricultural Microbiology)

Full Marks : 25

Time : One Hour

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *two* questions.

2×2=4

1. What is protoplast culture?
2. Write two advantages of liquid biofertilizer.
3. What are endophytes? Give one example.
4. Write two plant diseases and their causal organisms.

Group - B

Answer any *two* questions.

4×2=8

5. Discuss the process of plant tissue culture.
6. Outline the mass production process of rhizobial biofertilizer.

P.T.O.

(2)

7. State the mechanism of killing of pests by *Bacillus thuringiensis*.
8. Write the roles of microbes in composting and biogas production.

Group - C

Answer any *one* question.

8×1=8

9. What is R : S ratio? How can you produce biogas from solid waste?
2+6
10. What are pathogens and pathogenesis? Discuss the role of growth regulators in plant pathogenesis. 2+6

Internal Assessment : 5 marks
