Roll No	

DD-799

M. Sc. (Fourth Semester) EXAMINATION, 2020

MICROBIOLOGY

Paper Fourth (A)

(Agricultural Microbiology)

Time: Three Hours

Maximum Marks: 80

Note : Attempt all the *five* question. All questions carry equal marks.

- 1. Write short notes on the following:
 - (a) Rhizobium
 - (b) Bacillus
 - (c) Carbon cycle
 - (d) Leaf Curl of Papaya
- 2. Give a detailed account of Phosphate solubilization and mobilization.

Or

Write short notes on the following:

- (a) Structure and characteristics of Glomus
- (b) Nostoc and Anabaena

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3. Give a detailed note on **ecto** and **endo** micorrhizae and write about their agricultural importance.

Or

Write short notes on the following:

- (a) Symbiotic biological nitrogen fixers
- (b) Azotobacter and Asosprillum
- 4. What are biopesticides ? Discuss their types and applications.

Or

Write short notes on the following:

- (a) Nitrogen cycle
- (b) Pseudomonas syringae
- 5. Discuss the symptoms, causal organism and control measures of Tobacco Mosaic and Red Rot of sugarcane.

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Write short notes on the following:

- (a) Citrus canker
- (b) Yellow vein mosaic of Bhindi