

APRIL/MAY 2018

**MAM15A — BIOFERTILIZER
TECHNOLOGY**

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

1. (a) Describe the structures of Glomus and Gigaspora.

Or

- (b) Write about the salient features of Rhizobium.

2. (a) Give an account on available soil nutrients to support microbial growth.

Or

- (b) Write briefly about the factors affecting phosphate solubilization.

3. (a) Give a note on field application of Azotobacter inoculant and its response.

Or

- (b) Write notes on mass cultivation of Rhizobium.

4. (a) Describe the Trough method for algal production.

Or

- (b) How are cyanobacteria isolated from the soil?

5. (a) Explain the methods of storage of biofertilizers.

Or

- (b) Write notes on quality control of phosphobacteria inoculant.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Describe in detail the structure and general characteristic features of Azospirillum.
7. Explain the process of infection, nodule formation in leguminous plants with neat diagram.

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5

3

5

8. Give a detailed account of mass production of Azobacter.

9. Discuss in detail about Azolla.

10. Describe the method of isolation and mass production of VAM fungi.