

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.

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.