

NOVEMBER/DECEMBER 2019

**MAM15A — BIOFERTILIZER
TECHNOLOGY**

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) Give an account on structure and characteristic features of Anabaena.

Or

- (b) Write short notes on amanita.

2. (a) Describe about available soil nutrients to support microbial growth.

Or

- (b) Explain the nodule formation in leguminous plants.

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

Or

- (b) Describe about the production of inoculant and mass culture of Azospirillum.

914

4. (a) Comment on Trough method for algal production.

Or

- (b) Write the procedure for isolation on cyanobacteria from soil.

5. (a) Write short notes on phosphate solubilising microorganisms.

Or

- (b) Explain the quality control of rhizobial inoculants.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Discuss about the cultural characteristics of Frankia.

7. Describe the different methods of vermicomposting technology.

8. Give an account on mass cultivation of Rhizobium.

9. Explain about mass cultivation of Azolla. Add a note on its application.

10. Define Mycorrhiza. Differentiate between ecto and endo mycorrhiza with diagram.

2

914