

S.No. 202

12PAMZ02

(For the candidates admitted from 2012–2013 onwards)

M.Sc. DEGREE EXAMINATION,
NOVEMBER 2017.

First to Fourth Semester

Applied Microbiology

BIOFERTILIZER AND BIOMANURE TECHNOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Explain the various types and uses of biofertilizer.

Or

- (b) Write an account on sulphur cycle.

2. (a) Briefly describe the cultivation of Azolla.

Or

- (b) Write the various types of field application method of Azospirillum.

3. (a) Give an account on Endomycorrhizae.
Or
(b) Explain the morphology of VAM fungi.
4. (a) Write short notes on vermi compost.
Or
(b) Give an account on saw dust.
5. (a) Write the field application of Rhizobium.
Or
(b) Write about the biomanure production.

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions.

6. (a) Write an essay on Biological nitrogen fixation.
Or
(b) Describe in detail about the nitrogen cycle.
7. (a) Write an essay on Rhizobium as biofertilizer.
Or
(b) Explain the field application of cyanobacterial biofertilizers.

8. (a) Explain in detail about mass production of VAM.
Or
(b) Write a detailed account on VAM associations and highlight their significance.
9. (a) Write about the various farm yard manures.
Or
(b) Explain in detail about the biodegradation of organic compounds.
10. (a) Describe the Azolla as green manure cum biofertilizer.
Or
(b) How are biofertilizers and manures applied to soil, seeds and leaves?