

Total No. of pages : 

2
---

Register No. :

Name of the Candidate :

**DIPLOMA EXAMINATION, 2010**  
**(BIOPESTICIDES TECHNOLOGY AND BIO FERTILIZER PRODUCTION)**

**(PAPER – III)**

**130. BIOFERTILIZER TECHNOLOGY**

*December)*

*(Time: 3 Hours*

Maximum: 100 Marks

**SECTION – A**

***(5×2=10)***

**I. *Define any FIVE of the following***

1. Biopesticides.
2. Associative symbiosis.
3. Diazotrophs.
4. Arbuscules.
5. Carrier.
6. Mycelium.
7. Rhizosphere soil.

**SECTION – B**

***(5×4=20)***

**II. *Write short notes on any FIVE of the following.***

8. Denitrification.
9. Stem modules.
10. Frankia.
11. Heterocyst.
12. Shelf life.
13. Amabaena

14. Hartignet.

**SECTION – C**

**(5×5=25)**

**III. Answer any FIVE only (Compare and contrast)**

15. Determinate and indeterminate modules.
16. Nostoc and Anabaena.
17. Nitrification and denitrification
18. Rhizobium and Azospirillum.
19. Vesicle and Arbuscule.
20. Ecto and endo mycorrhizae
21. Phyllosphere and rhizosphere.

**SECTION – D**

**(5×9=45)**

**IV. Answer any FIVE of the following (Draw diagrams if necessary)**

22. Discuss the importance of soil microorganisms to maintain soil fertility.
  23. Explain the importance of Algal biofertilizers.
  24. Write the importance of Azolla, Anabaena symbiosis.
  25. Explain the need for quality control on biofertilizers and write various measures.
  26. Explain the mass production of AM fungi.
  27. Discuss the mechanism of phosphorous solubilisation by phosphobacteria.
  28. Write the importance of quality standards for bacterial biofertilizers.
-