

**B.Sc. BOTANY**  
**THIRD SEMESTER (REPEAT)**  
**BIOFERTILIZER**  
**BSB-306**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

**( Objective )**

Time: 15 mins.

Marks: 10

*Choose the correct answer from the following:*

*1×10=10*

1. Mycorrhizae is associated with the following:
  - a. Formation of root nodules
  - b. Hyphae penetrating the soil
  - c. Found mostly in lower plants
  - d. Soil erosion
2. Green manure plants used by farmers mainly belong to:
  - a. Compositae
  - b. Leguminosae
  - c. Solanaceae
  - d. Poaceae
3. Organic farming is the technique of raising crops through uses of?
  - a. Manure
  - b. Biofertilizer
  - c. Resistant varieties
  - d. All of these
4. Which is correct about nitrogen fixation by legumes? They fix nitrogen through:
  - a. Specialized bacteria in their roots
  - b. Specialized bacteria in their leaves
  - c. Independent of bacteria that live in their roots
  - d. The statement is wrong
5. The proper method of application of biofertilizer in transplanted crops is:
  - a. Seed treatment
  - b. Seedling root dip
  - c. Main field application
  - d. None of these
6. Which relationship describes association between both the partners and derived some benefit?
  - a. Amensalism
  - b. Competition
  - c. Mutualism
  - d. Predation
7. Biofertilizers include:
  - a. Cowdung manure and farmyard waste
  - b. A quick growing crop ploughed back
  - c. BGA/Anabeana and Azolla
  - d. All the above
8. Which is not a biofertilizer?
  - a. Azotobacter
  - b. Puccinia
  - c. Rhizobium
  - d. Actinomycetes
9. Choose the incorrect statement.
  - a. Carriers increases the effectiveness of the biofertilizer
  - b. It enables easy handling
  - c. It increases the nutrient content
  - d. Increases the storage or self life

10. VAM is a type of:
- a. Ecto mycorrhizae
  - b. Endo mycorrhizae
  - c. Ectendo mycorrhizae
  - d. Parasitism

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**( Descriptive )**

Time : 1 hr. 15 mins.

Marks : 25

[ Answer question no.1 & any two (2) from the rest ]

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|--|--------|
| 1. Write about the advantages and disadvantages of biofertilizers.                                 | 5      |
| 2. Write the difference between edomycorrhiza and ectomycorrhiza.                                  | 10     |
| 3. What are the materials required for vermicomposting? Describe the procedure of vermicomposting. | 3+7=10 |
| 4. What is green leaf manure? Describe benefit of green leaf manure.                               | 2+8=10 |
| 5. Briefly discuss:  | 5+5=10 |
| a) Compost making process.   |        |
| b) Criteria of good carrier material.  |        |

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