

**B.Sc. BOTANY
THIRD SEMESTER
BIOFERTILIZER
BSB-306**

**SET
B**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

(Objective)

Marks: 10

Choose the correct answer from the following:

1×10=10

- Green manure plants used by farmers mainly belong to:
 - Compositae
 - Leguminosae
 - Solanaceae
 - Poaceae
- Which is correct about nitrogen fixation by legumes? They fix nitrogen through:
 - Specialized bacteria in their roots
 - Specialized bacteria in their leaves
 - Independent of bacteria that live in their roots
 - The statement is wrong
- Which relationship describes association between both the partners and derived some benefit?
 - Amensalism
 - Competition
 - Mutualism
 - Predation
- Which is not a biofertilizer?
 - Azotobacter
 - Puccinia
 - Rhizobium
 - Actinomyces
- VAM is a type of:
 - Ecto mycorrhizae
 - Endo mycorrhizae
 - Ectendo mycorrhizae
 - Parasitism
- Mycorrhizae is associated with the following:
 - Formation of root nodules
 - Hyphae penetrating the soil
 - Found mostly in lower plants
 - Soil erosion
- Organic farming is the technique of raising crops through uses of?
 - Manure
 - Biofertilizer
 - Resistant varieties
 - All of these
- The proper method of application of biofertilizer in transplanted crops is:
 - Seed treatment
 - Seedling root dip
 - Main field application
 - None of these
- Biofertilizers include:
 - Cowdung manure and farmyard waste
 - A quick growing crop ploughed back
 - BGA/Anabeana and Azolla
 - All the above

10. 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

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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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