

Unique Paper Code : 42163302  
Name of the Course : **B.Sc. Life Sciences, 2020**  
Name of the Paper : SEC: Biofertilizers  
Semester : III  
Duration : 3 Hours +1 Hour for uploading **Maximum Mark: 38**

**Instructions for Candidates**

- a) Write your Roll No., Name of the Paper, Course, Semester and Date of examination on the first page of the answer sheet.
- b) Attempt **ANY FOUR** questions. All questions carry equal marks.
  1. Write in detail the procedure of isolation and mass multiplication of Azotobacter and its role in agriculture. **(9.5)**
  2. What is 'compost'? How will use of compost in agriculture help in maintaining soil health? Elaborate any one composting method. **(9.5)**
  3. What do you understand by mycorrhizae? Discuss the major types of mycorrhizal association in detail. Explain with well labelled diagrams. **(9.5)**
  4. Define organic farming. Mention its key characteristics. What are its advantages and disadvantages? **(9.5)**
  5. What are the characteristics of blue green algae? Explain its role in rice cultivation. **(9.5)**
  6. Comment on the statement "Biofertilizer for sustainable agriculture". **(9.5)**