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Total No. of Questions: [09]

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B.Sc. (Hons.) Agriculture (Semester – 2nd)
AGRICULTURAL MICROBIOLOGY
Subject Code: BAGRS1-255
Paper ID: [21130116]

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(2 marks each)**

Q1. Attempt the following:

- a. Define Transformation.
- b. Define crop productivity.
- c. Describe Fungi.
- d. What are silage productions?
- e. Describe biopesticides.
- f. Discuss about biodegradation of agro-waste.
- g. Define symbiotic.
- h. Write down mushroom cultivation.
- i. Define associative.
- j. Discuss about plasmids.

Section – B **(5 marks each)**

Q2. What is the function of mycorrhiza and its types?

Q3. What are the general characteristics eukaryotic with diagram?

Q4. Write down the Azolla, BGA Characteristics and prepare culture Azolla and BGA?

Q5. Describe nitrogen cycle with diagram

Q6. What is Biofertilizer, how many types, Describe in detail about its use?

Section – C **(10 marks each)**

Q7. Define growth analysis .Discuss about the role of Physiological growth parameters in crop productivity.

Q8. What do you mean by Azospirillum? What are the important steps involved in the Production of Azospirillum inoculant?

Q9. Define Mineral nutrition .Explain the Functions and deficiency symptoms of N, P and K.