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Total No. of Printed Pages: [01]

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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.