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B.Sc. (Hons.) Agriculture (Semester: 2nd)

AGRICULTURAL MICROBIOLOGY

Subject Code: BAGRS1-203

Paper ID: 19130112

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 mesophiles.
- b. What are Eukaryotic microbes?
- c. Describe bacillus thuringiensis.
- d. Write down biofuel production.
- e. Define Nif gene.
- f. Write down mycorrhiza
- g. Describe chemoautotrophy
- h. Write down the Tikka disease.
- i. What is meant by ammonification?
- j. Define symbiotic.

Section – B

(5 marks each)

- Q2. Write down the scope of microbiology in agriculture.
- Q3. Explain the advantage of Biofertilizers.
- Q4. Discuss about microbes its role in soil fertility and crop production.
- Q5. Explain the nitrification and denitrification in details.
- Q6. Discuss about distinguish between algae cyanobacteria and blue-green algae.

Section – C

(10 marks each)

- Q7. Write down the brief description of rhizosphers also mentions the role of microorganisms involved in phyllospher.
- Q8. What do mean by microbial insecticides and how are they produced?
- Q9. Discuss about Bacterial genetics recombination transformation also explains with conjugation and transduction.