

Roll No.

Total No. of Pages : 02

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B.Sc. (Hons.) (Agriculture) (Sem.-2)

AGRICULTURAL MICROBIOLOGY

Subject Code : BSAG-202-19

M.Code : 77663

Date of Examination : 15-12-2022

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A

- 1. Write briefly :**
- a) Write short note on biopesticides.
 - b) Write short note on transformation.
 - c) Write short note on biofertilizers.
 - d) Why the population of growing bacterial cells enters into a stationary phase after sometime in a batch culture.
 - e) Write short note on biodegradation of agro-waste.
 - f) What are biofuels?
 - g) Define heterocyst.
 - h) Define hartignet.
 - i) Define rhizospheric effect.
 - j) Define F-plasmids.

SECTION-B

2. Give brief account of conjugation.
3. Describe various nutritional forms of microorganisms.
4. Give an account of the structural details of peptidoglycan.
5. What are rhizosphere and phyllosphere?
6. What is silage?

SECTION-C

7. Describe phosphorus and sulphur cycle along with schematic representation.
8. What is growth? Give a consolidated account on the influence of various physical factors on growth of microorganisms.
9. Describe the different mode of biological nitrogen fixation.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.