

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Agriculture) (Sem.-2)
AGRICULTURAL MICROBIOLOGY

Subject Code : BSAG-202-19

M.Code : 77663

Date of Examination : 05-07-22

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 a short note on plasmids incompatibility.
- b) Write a short note on photoautotrophic bacteria.
- c) Write a short note on ammonification.
- d) What is generation time?
- e) Write short note on cellulose decomposition.
- f) Define diauxic growth.
- g) Define transposon.
- h) Define hartignet.
- i) Define rhizospheric effect.
- j) Name any two phosphate solubilizing microorganisms.

SECTION-B

2. Give brief account on biopesticides.
3. Give general characteristics of bacteria.
4. Explain *Azolla* as biofertilizer.
5. Give distinguishing characteristics of Cyanobacteria.
6. Differentiate between Prokaryotic and Eukaryotic cell.

SECTION-C

7. Describe Nitrogen cycle in detail along with schematic representation.
8. What is Silage? Describe the process of silage production.
9. Describe the mechanism of transduction and transformation in bacteria.

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.