

Roll No.

Total No. of Pages : 02

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B.Sc. (Microbiology) (Sem.-4)
AGRICULTURAL MICROBIOLOGY

Subject Code : BSMB-403-20

M.Code : 92101

Date of Examination : 07-07-22

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) Soil Microbiology
- b) Immobilization
- c) Nitrogen fixation
- d) Biofertilizer
- e) Enzymes
- f) Elicitors
- g) Phytotoxins
- h) Protozoa
- i) Soil microbes
- j) Toxins.

SECTION-B

2. Discuss the role of PR-proteins and growth regulators in plant-microbe interactions.
3. Write a brief note on ammonia assimilation in nitrogen fixing legume modules.
4. Describe the process of Mineralization, Immobilization and Adsorption in relation transformations of phosphorous cycle.
5. Discuss the biology of Peronospora and TMV.
6. Define cyanohacferia (BGA) and their association in nitrogen fixation.

SECTION-C

7. Describe the role of plant growth regulators in plant pathogenesis.
8. Write brief note on microbial interaction with plants.
9. Elaborate the role of pathogen enzyme in pathogenesis and production of different enzyme.

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.