

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc.(Agriculture) (Sem.–2) ELEMENTARY MICROBIOLOGY Subject Code : BSAG-201 M.Code : 72356 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 a short note on the following :
 - a) Define "Growth".
 - b) Write short note on phosphate solubilizing microorganisms.
 - c) Write short note on composting.
 - d) Why plants cannot directly utilize the atmospheric nitrogen?
 - e) What are Mushrooms?
 - f) Write short note on viroid.
 - g) What is Denitrification?
 - h) Write short note on Transduction.
 - i) Give a brief account of biopesticides.
 - j) Give a concise account of food preservation.

SECTION-B

- 2. Discuss various types of plant-microbes interactions.
- 3. Briefly explain bacterial growth curve.
- 4. Differentiate between edible and poisonous mushroom.
- 5. Discuss biological nitrogen fixation.
- 6. Discuss the lysogenic life cycle of bacteriophages.

SECTION-C

- 7. Explain genetic recombination in bacteria.
- 8. What are Algae? Mention their salient features and describe their mechanism of nutrition.
- 9. What are Mycorrhizae? Describe the classicatory categories of mycorrhizae in detail with the help of suitable a diagram.

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