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Total No. of Questions : 09

B.Sc. (Agriculture) (Sem.-2) ELEMENTARY MICROBIOLOGY Subject Code : BSAG-201 M.Code : 72356 Date of Examination : 17-12-2022

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 a short note on the following :
 - a) Write short note on Plasmids.
 - b) Which algae results in Red-tides in Oceans?
 - c) Write short note on ammonification.
 - d) Which chemical was used by Paul Ehrlich to treat syphilis?
 - e) Define "Tyndallization"
 - f) Write short note on cellulose decomposition.
 - g) Give biological names of dhingri and button mushroom.
 - h) Write short note on water-transmitted diseases.
 - i) Why plants cannot directly utilize the atmospheric nitrogen?
 - j) Give any two protozoans diseases.

SECTION-B

- 2. What is the main difference between a Chemoautotrophic and a Photoautotrophic bacterium?
- 3. Briefly explain the generation time of bacteria and describe the mathematical expression of growth.
- 4. Give brief account of microbial pesticides.
- 5. Differentiate between Isogamous and Anisogamous gametes.
- 6. Discuss the contribution of Joseph Lister and Alexander Fleming in the field of microbiology.

SECTION-C

- 7. Explain lytic and lysogenic life cycle of bacteriophages.
- 8. What are biofertilizers? Describe different types of biofertilizers.
- 9. What are mushrooms? Give brief account of button mushroom cultivation in India.

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.