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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Agriculture) (2014 & Onwards) (Sem.-2)

ELEMENTARY MICROBIOLOGY

Subject Code : BSAG-201

Paper ID : [72356]

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) Pasteurisation
- b) Fermentation
- c) Single cell protein
- d) Rhizosphere
- e) Nitrification
- f) Food preservation
- g) Prophage
- h) Edible mushrooms
- i) Virioids
- j) Haustoria

SECTION-B

2. Discuss the contributions of Robert Koch, Louis Pasteur and Antony Van Leeuwenhoek.
3. Classify and explain the micro-organisms on the basis of mode of nutrition.
4. Explain biochemical reactions taking place in nitrogen cycle along with well labelled diagram.
5. What is compost technology? Discuss the detailed process of microbial composting.
6. What do you mean by biodegradation? Explain the role of different microbes in biodegradation of natural organic compounds.

SECTION-C

7. Explain the major contributions of Louis Pasteur in development of microbiology.
8. What are bacteriophages? Explain different stages of lytic cycle for its multiplication. How does it differ from the lysogenic cycle?
9. What do you mean by microbial food spoilage? Describe different types of food spoilage, their causative agents and measures to prevent the spoilage of food.

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.