

Roll No.

Total No. of Pages : 02

Total No. of Questions : 18

B.Sc. (Agriculture) (2014 to 2018) (Sem.-2)

ELEMENTARY MICROBIOLOGY

Subject Code : BSAG-201

M.Code : 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

Write short notes on :

1. Pure Culture
2. Rickettsias
3. Denitrification
4. Mycorrhizae
5. 'Fungi imperfecti'
6. Virioids
7. Rhizospheric effect
8. Ectocommensalism
9. Methanogens
10. Heterocyst

SECTION-B

11. What are fungi? Mention their salient features and describe their mechanism of nutrition.
12. What are the various similarities that are shared by cyanobacteria with red algae?
13. Discuss Germ theory of disease along with contributions of Robert Koch and Louis Pasteur.
14. What is food preservation? Discuss the different methods used for preservation of food.
15. What are biopesticides? Write down the methods for selecting biological control agents?

SECTION-C

16. What are redox reactions? Explain the electron transport chain in aerobic respiration along with well labelled flow chart.
17. What do you mean by biodegradation? What is the role of microorganisms in degradation of agri-residues and development of organic matter?
18. What are mushrooms? Explain the cultivation technology of Button, Dhingri and Paddy straw mushroom in detail.

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.