

[illegible]

B.Sc.(BT) (2018 Batch) (Sem.-2)
INTRODUCTION TO MICROBIOLOGY
Subject Code : BSBT-202-18
M.Code : 75873

Max. Marks : 60

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.**

1. Write briefly :

- a) A. Leeuwenhoek
- b) Koch postulates
- c) Molds
- d) Blue green algae
- e) Bacteriophage
- f) Generation time
- g) Diauxic growth
- h) Chemostat
- i) Biological nitrogen fixation
- j) Fermentation

SECTION-B

2. Describe briefly principle of bright field and dark field microscopy.
3. Describe the chemical structure of cell wall of bacteria.
4. How microbes survive in extreme environments? Explain.
5. Describe briefly host defence mechanism against pathogens.
6. Describe briefly types of microbial pathogens of humans and diseases caused by them.

SECTION-C

7. What is sterilization? Describe the physical and chemical methods of sterilization. Also highlight advantages and disadvantages in each case.
8. What are heterologous proteins? Describe the production of heterologous proteins in microbes with suitable examples.
9. Give a brief account of characteristics of bacteria, fungi and algae.

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.