

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (BT) (2018 Batch) (Sem.-3)

MICROBIOLOGY

Subject Code : BTBT303-18

M.Code : 76947

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 briefly :**

1. Write two functions of pili in bacteria.
2. Name two diseases in humans caused by virus.
3. Define Selective Medium.
4. What is Diauxic Growth?
5. Give the definition of Microbial Fermentation.
6. What is Decimal Reduction Time?
7. Give two major contributions of Elie Metchnikoff in the field of microbiology.
8. What is the major difference between Archaea and Eubacteria?
9. Which period is known as the Golden Era of Microbiology?
10. How is fungi different from bacteria?

SECTION-B

11. What are the different phases of Growth Curve? Explain each phase in detail.
12. What are the different methods of Sterilization? Briefly discuss moist heat sterilization (Autoclaving).
13. Discuss briefly the classification of bacterial based on nutritional requirement. Provide requisite examples.
14. How are microbial strains preserved and maintained in the industry?
15. Describe the process of conjugation and its role in bacterial reproduction.

SECTION-C

16. Explain in detail about the batch and continuous fermentation process.
17. What are the different methods of screening industrially important microorganisms?
18. Explain the structural difference between Prokaryotic and Eukaryotic microorganisms.

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.