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Total No. of Questions: 18

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

MICROBIOLOGY

Subject Code: BTBT-303-18

M.Code: 76947

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write briefly:

- Prions
- Flagella
- Conjugation
- Endospore and exospore
- Peptidoglycan
- Active transport
- Molasses
- 8. Extremophiles
- Agar agar
- Mesosomes

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SECTION-B

- Differentiate between the cell wall of Gram positive and Gram negative bacteria? Explain with suitable examples.
- 12. Explain various techniques used for isolating pure culture from mixed culture? What are selective media and differential media?
- 13. What are autotrophs and what are their different physical and chemical growth requirements for culturing? Explain with suitable examples and give various sources of nutrients.
- 14. Discuss and explain bacterial recombination in detail? What are its applications?
- Define microbial growth? What are different methods to determine growth in unicellular and multicellular micro-organisms? Explain with examples.

SECTION-C

- 16. What physical and chemical methods are used to control the growth of microbes? Why their control is necessary?
- 17. What is strain improvement and why it is necessary? How it can be achieved?
- 18. Explain different methods for preservation of micro-organisms? What are germplasm banks and why preservation of microbes is necessary?

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.

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