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B.Tech. (BT) (2018 Batch) (Sem.-3) FOUNDATIONS OF BIOTECHNOLOGY

> Subject Code: BTBT302-18 M.Code: 76946

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

Answer briefly:

- What is a recombinant DNA vaccine? Give two examples.
- 2. What is meant by the term bio-pesticide?
- What is gene therapy?
- What is biological nitrogen fixation? Highlight its importance.
- Highlight the differences between classical and modern biotechnology.
- 6. What do you mean by an alcoholic beverage? How many types of beverages are available in the market?
- What is protein engineering? Cite a suitable example.
- Define a biopharmaceutical.
- Which technique is used for the separation and isolation of sub-cellular organelles and why?
- What are the main enzymes used in bakery industry? Briefly highlight their roles.

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SECTION-B

- Briefly discuss Thin layer chromatography and its applications in biotechnology.
- Define Biosafety & its requirement in laboratory.
- Discuss the different biosafety levels while handling microorganisms.
- 14. Discuss applications of animal tissue culture.
- Explain different types of bioremediation processes with suitable examples.

SECTION-C

- 16. Discuss the importance of algae with reference to use as food, feed and fuel.
- Discuss the role of bacteria and fungi in bioremediation.
- 18. Microbes play a significant role in symbiotic nitrogen fixation. Justify the statement.

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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