



**2019/TDC/ODD/SEM/  
BTCHCC-302T/242**

**TDC (CBCS) Odd Semester Exam., 2019**

**BIOTECHNOLOGY**

**( 3rd Semester )**

Course No. : BTCHCC-302T

**( General Microbiology )**

*Full Marks : 50*

*Pass Marks : 20*

*Time : 3 hours*

*The figures in the margin indicate full marks  
for the questions*

**UNIT—I**

**1. Answer any *two* of the following questions :**

**2×2=4**

(a) Name the criteria used in microbial taxonomy.

(b) Write about golden era of microbiology.

(c) Point out the unique features of viruses.



2. (a) Write a note on microbial phylogeny. Differentiate between prokaryotic and eukaryotic cells. 3+3=6

Or

(b) Give a detailed account of ultrastructure of a typical bacterial cell with a neat diagram. 6

UNIT—II

3. Answer any two of the following questions : 2x2=4

- (a) Name two culture media for bacteria.
- (b) Write about lyophilised culture.
- (c) Name two fungal media for culturing.

4. (a) Give a detailed account of nutritional categories of microorganisms. 6

Or

(b) Describe various methods of isolation of microorganisms.

UNIT—III

5. Answer any two of the following questions : 2x2=4

- (a) Write a note on generation time.
- (b) What is continuous culture?
- (c) What do you mean by endospores?

6. (a) Give an account of factors affecting growth of bacteria. Add a note on microbial metabolism. 3+3=6

Or

(b) Write a note on conjugation. Briefly explain transformation in bacteria. 3+3=6

UNIT—IV

7. Answer any two of the following questions : 2x2=4

- (a) Define coliforms.
- (b) Name some chemotherapeutic agents.
- (c) What is BOD?

8. (a) Describe physical means of controlling microorganisms. Add a note on bacterial pollutants of water. 4+2=6

Or

(b) Give a detailed account of sewage composition and its disposal. 2+4=6

UNIT—V

9. Write notes on any two of the following : 2x2=4

- (a) Moulds in food items
- (b) Food yeasts
- (c) Pasteurization



10. (a) Give an account of major food-borne infections and intoxications.

Or

(b) Describe briefly various types of fermented foods.

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