

Roll No. 2385968

**91548**

**B. Sc. (Bio-Technology) 2nd Sem. (New  
Scheme) Examination – May, 2014**

**MICROBIOLOGY**

**Paper : BT-202**

Time : Three hours ]

[ Maximum Marks : 40

*Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Question No. 1 is *compulsory* & of 10 marks. Attempt rest *four* questions selecting *one* question from each Unit. All questions carry equal marks.

1. Write short notes on : 10

- (a) CONJUGATIVE PLASMIDS
- (b) ENDOSPORES
- (c) SYNCHRONOUS CULTURE
- (d) FOOD BORNE INTOXICATION
- (e) AGAR - AGAR

2. What is taxonomy ? Describe molecular approaches used to study bacterial taxonomy. 7.5
3. State difference between Prokaryotes and Eukaryotes. Draw a well labelled diagram of bacterial cell. 7.5

## UNIT - II

4. Define Culture media. State different types of media and pure culture isolation. 7.5
5. Write short notes on : 7.5
- (a) Difference between chemoautotrophs and Photoautotrophs.
  - (b) Culture Preservation.

## UNIT - III

6. Describe following : 7.5
- (a) Growth curve
  - (b) Batch and continuous culture

7. Define conjugation. How it is different from transformation? 7.5

UNIT - IV

8. Describe briefly : 7.5

(a) Sewage treatment.

(b) Fermented Food.

9. What are yeast ? Describe role of micro-organisms in Industry. 7.5

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Microbiology