

3018

**B. Tech. 3rd Semester (Bio-Tech.)  
Examination – December, 2022**

**BIOLOGY**

Paper : BSC-BIO-201-G

Time : Three hours ]

[ Maximum Marks : 75

*Before answering the questions, 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 :** Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is *compulsory*. All questions carry equal marks.

1. Write the short note on following :  $2.5 \times 6 = 15$
- Prokaryotic cell
  - Types of microbes
  - Meiosis
  - Fructose
  - Lipids
  - Ligases

2. Explain the animal and plant cell in detail with suitable diagram. 15

3. Write notes on :  $7.5 \times 2 = 15$

(a) Evidence of nucleic acid as a genetic material

(b) Central dogma

## UNIT - II

4. Write the notes on :  $7.5 \times 2 = 15$

(a) Structure and function of starch

(b) Types of RNA -

5. Describe the Watson and Crick model of DNA with suitable diagram. <https://www.mdustudy.com> 15

## UNIT - III

6. Describe briefly the various tools used in recombinant DNA technology. 15

7. What are transgenic animals ? Explain the importance of transgenic animals. 15

## UNIT – IV

8. Discuss the applications of biotechnology in medicine and sewage treatment. 15

9. Write the notes on :  $7.5 \times 2 = 15$

(a) Enzyme technology

(b) Role of biotech in agriculture

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