



RAN - 2003000204020071

RAN-2003000204020071

S.Y.B.Sc. (Sem. IV) Examination April - 2025

Medical Laboratory Technology

Microbial Metabolism and Genetics (Old) (Paper - VIII)

Time: 2 Hours]

[Total Marks: 50

सूचना : / Instructions

(१)

नीचे दशावैल निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:
S.Y.B.Sc. (Sem. IV)

Name of the Subject :
Medical Laboratory Technology Microbial Metabolism and Genetics (Old) (Paper - VIII)

Subject Code No.: 2003000204020071

Seat No.:

--	--	--	--	--	--

Student's Signature

- (2) Q.1 is a compulsory question.
- (3) Draw diagrams wherever necessary.
- (4) Figures to the indicates the marks allotted to the questions.

Q.1. Answer in brief:

08

1. Which compound is the major energy currency source and why?
2. Define: Photoautolithotrops giving suitable examples.
3. What are okazaki fragments?
4. Define: Transposable elements.

Q.2. Answer the following: (Any Two):

14

1. Genetic code is a triplet codon and universal. Justify.
2. Write a note on nutritional types of bacteria.
3. Describe the Electron transport chain.

RAN-2003000204020071]

[1]

[P.T.O.]

P0101

Q.3. Answer the following: (Any Two): 14

1. Discuss redox reactions giving suitable examples.
2. Explain $F^+ \times F^-$ and $F' \times F^-$ conjugation.
3. Give a brief on development of antibiotic resistance in bacteria.

Q.4. Answer the following: (Any Two): 14

1. Initiation and elongation of DNA
 2. Principles governing biosynthesis
 3. Generalized transduction.
-