

(i) Printed Pages: 2

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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**B.A./B.Sc. (General) 2nd Semester
(2054)**

INDUSTRIAL MICROBIOLOGY (Elective)

Paper : IMB 202 Fundamentals of Microbial Biochemistry

Time Allowed : Three Hours] [Maximum Marks : 33

**Note :—Attempt FIVE questions in all. Q. No. 1 is compulsory.
Attempt ONE question from each unit.**

1. Attempt the following :—

- (a) What is Iodine number and Saponification value ?
- (b) Give examples of Aromatic amino acids.
- (c) Define Isozymes.
- (d) What are Homopolysaccharides and Heteropolysaccharides ?
- (e) Give examples of Saturated and Unsaturated fatty acids.

1×5

UNIT—I

2. Write notes on :—

- (a) Enzyme catalysis
- (b) Enzyme Inhibition.

7

3. Discuss factors influencing enzyme catalytic activity. 7

UNIT—II

4. Discuss important properties of Carbohydrates. 7
5. Write notes on :—
 - (a) Lipid peroxidation
 - (b) Microbial Lipids. $3\frac{1}{2} \times 2$

UNIT—III

6. Discuss steps and enzymes involved in Glycolytic breakdown of glucose. 7
7. Discuss steps and enzymes involved in Gluconeogenesis. 7

UNIT—IV

8. Deliberate on classification of Essential Amino acids on the basis of their Zwitterionic property. 7
9. Write a note on Peptide synthesis. 7