

(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

1046

INDUSTRIAL MICROBIOLOGY (Elective)

Paper-IMB-202 : Fundamentals of Microbial Biochemistry

Time Allowed : Three Hours]

[Maximum Marks : 33

Note : Attempt **five** questions in all. Question No.1 is compulsory. Select **one** question from each Unit. All questions carry marks as indicated.

1. (a) What is a storage polysaccharide ?
- (b) What are the products of lipid peroxidation ?
- (c) What are zwitter ions ?
- (d) How many ATPs are produced in TCA cycle ?
- (e) Name two non polar amino acids. 1×5=5

UNIT-I

2. Compare the competitive and non competitive inhibition of enzymes. 7
3. Discuss the different modes of enzyme catalysis. 7

UNIT-II

4. Discuss the classification of microbial lipids. 7
5. Describe the structure and biochemical role of starch. 7

UNIT-III

6. Discuss the reactions in preparatory phase of glycolysis. What is the significance of glycolysis? 7
7. Discuss the metabolic reactions of kreb's cycle. 7

UNIT-IV

8. Discuss the degradation of AMP. 7
9. Describe the synthesis of TMP. 7