

(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
Examination**

1047

INDUSTRIAL MICROBIOLOGY

(Elective)

**Paper : IMB 202 (Fundamentals of Microbial
Biochemistry)**

Time : 3 Hours]

[Max. Marks : 33

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

1. (a) What is a structural polysaccharide ?
- (b) Define lipid peroxidation.
- (c) What are isozymes ?
- (d) How many ATPs are produced in glycolysis ?
- (e) Name two polar amino acids. 1×5=5

N-41

(1)

Turn Over

Unit-I

2. Discuss the factors affecting catalytic efficacy of enzymes. 7
3. Discuss the classification of enzymes based on their function. 7

Unit-II

4. Discuss the steps in beta oxidation of lipids. 7
5. Describe the structure and biochemical role of glycogen. 7

Unit-III

6. Discuss the reactions in pay off phase of glycolysis.
What is the biochemical importance of glycolysis ? 7
7. Discuss the regulation of Kreb's cycle. 7

Unit-IV

8. Discuss the biosynthesis of AMP. 7
9. Describe the degradation of CMP. 7