Exam.Code:0002 Sub. Code: 0185

1058

B.A./B.Sc. (General) Second Semester Industrial Microbiology

IMB-202: Fundamentals of Microbial Biochemistry

Time allowed: 3 Hours

Max. Marks: 33

(5x1)

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

- I. Attempt the following:
 - a) What is an oligosaccharide?
 - b) Define sphingolipids.
 - c) Define isozymes.
 - d) What are the different constituents of glycogen?
 - e) Why amino acids have a dipolar character.

UNIT-I

II.	Discuss the thermodynamics of enzyme catalysis.	(7)
III.	Discuss the role of covalent modifications on enzyme function.	(7)
	<u>UNIT – II</u>	
IV.	Discuss the mechanism of lipid peroxidtion.	(7)
V.	Describe the structure, properties, and biochemical role of cellulose.	(7)
	<u>UNIT – III</u>	
VI.	Discuss the reactions in glycolysis.	(7)
VII.	Discuss the regulation of Kreb's cycle.	(7)
	<u>UNIT – IV</u>	
VIII.	Discuss the classification criteria of amino acids.	(7)
IX.	Describe the degradation of GMP.	(7)