

AC-1797

M. Sc. (Integrated Biotechnology) (Sem. IV) Examination

April / May - 2015

C1C2 : Enzymes & Coenzymes	
Time: 2 Hours] [Total Marks:	5 0
Instructions:	
(1)	
નીચે દર્શાવેલ → નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of → signs on your answer book. Name of the Examination: M. SC. (INTEGRATED BIOTECHNOLOGY) (SEM. IV) Name of the Subject: C1C2: Enzymes & Coenzymes Subject Code No.: 1 7 9 7 → Section No. (1, 2,): Nil Student's Signature (2) Figures to the right indicate full marks. (3) Draw neat and labelled diagrams wherever necessary.	_ _ ノ
Q-1: Write in short Any Four: (a) Define: Regulatory Enzyme. (b) What are Homotropic Modulators? (c) Define Enzyme and Coenzyme. (d) Define the term: Competitive inhibitors. (e) Who first isolated and crystallized Enzyme?	8)
Q-2: Attempt Any Two: (a) Give detailed account on Fisher "Lock and Key" Hypothesis. (b) Discuss in detail about Stereospecificity of enzymes. (c) Write a note on Thiamine pyrophosphate with necessary structure.	4)
Q-3: Explain in detail Any Two: (a) Flavin nucleotides. (b) Derivation of Michaelis-Menten equation. (c) Effect of pH on enzymatic reaction.	4)
Q-4: Attempt Any Two of the following: (a) Discuss in detail: Noncompetitive inhibition. (b) What do you understand by the term Allosteric enzymes? Explain its kinetic	4)

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(c) Explain: How do non covalent modulator binding affect the regulatory enzyme?