Tim	e: 2½ hours. To	tal Marks: 6
	Note: 1. Answer all five questions.	
	2. All questions carry equal marks.	
	3. Draw neat and labelled diagrams where	necessary.
Q1.	a) Discuss in brief Protein folding disorders.	06
	b) Write short notes on role of enzymes in protein folding (PDI, PPI).	06
	OR STATE	
Q1.	Explain basic concepts for design of a new protein/enzyme molecule wis suitable example.	th <u>12</u>
Q2.	a) Describe the role of covalent catalysis in the enzyme catalysis.	
	b) Discuss the Hill's equation coefficient.	7 6 06
		06
		\$ B B
Q2.	Describe the methods and applications of immobilized enzymes.	12
Q3.	a) Explain the term nutrigenomics with suitable examples.	06
•	b) Describe the methods of detection of metabolites.	06
Q3.	Discuss the basic concepts and technology of transcriptomics.	12
Q4.	a) Write a note on applications of Nanobiology in field of Life Scienceb) Comment on role of electron microscopy for the characterization of nanomaterials.	s. 06 06
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Q4.	Explain in detail the liposomal formulation.	12
Q5.	Write short notes on any three:	12
	a. Chaperonins	
	b. Effect of amino acids on structure of proteins	
	c. Chymotrypsin	
10°6	d. KNF models	
15 C	e. EST	
	f. Membrane nanodiscs	
30	9 \ \times \	