Q.P. Code: 28446

		[Time: $2\frac{1}{2}$ Hours] [ Ma	rks: 60]
		Please check whether you have got the right question paper.  N.B: 1. Answer <b>all five</b> questions.  2. All questions carry <b>equal</b> marks.  3. Draw neat and labelled diagrams where necessary.	
Q.1	a) b)	Elaborate the importance of weak interactions in the structure of proteins.  Explain the geometrics of covalent interaction in conformation of proteins  OR	06 06
Q.1		Describe the principle, working, and applications of Raman spectroscopy.	12
Q.2	a) b)	Explain the following modification of proteins. Phosphorylation Lipidation	06 06
Q.2		OR  Describe the biocatalytic approaches for biohybrid structures.	12
Q.3		Explain the general principles of metal coordination with reference to signal transduction metalloproteins.	12
Q.3		OR Write a short note on:-	
<b></b>	a) b)		06 06
Q.4		Describe the following interactions with a suitable example:-	
	-	Protein-sugar interactions DNA-protein interactions	06 06
		OR	
Q.4		Describe the advanced techniques used in the diagnostics of disease due to structural alternat of DNA.	ion <b>12</b>
Q.5	a) b) c) d) e) f)	Write short notes on any three: Applications of ORD Signal transduction metalloproteins Methylation in protein modification p53 in cancer Triple helix Cytochrome c	12