11	An	nswer the following:	$(3 \times 2 = 6 \text{ marks})$
	i.	How will you disprove the presence of two catalytic enzyme?	sites in a monomer of Fokl
	ii.	What are the two caveats (limitations) of proposing singl	e catalytic sites in Fokl?
	iii.	Chandrasegaran engineered first chimeric restriction endonuclease by linking	
			main of Fokl.
2)	An	nswer the following:	(3 x 2 = 6 marks)
	i.	Write the seven conserved residues in a Zinc Finger Repea	
	ii.		
	make one to one contact with oligonucleotides.		tine iniger repeats, which
iii. State the importance of NaHBO4 in finding out the structure of zinc fin			re of zinc finger domains
3) The sequence of the full-length peptide given is Ser-Met-Gly-Thr-Lys-Ala-Glu. Wri			hr-Lys-Ala-Glu. Write down
		e smaller peptides obtained by treating it with -	(2 x 2 = 4 marks)
	i. C	Cyanogen bromide (CNBr)	
	ii. T	Trypsin (Trp)	
) A	nsv	wer the following:	(2 x 2 =4 marks)
i.	i. Many transcription regulators form dimers of identical or slightly different subunits or		
	ne D	ONA. Suggest two advantages of dimerization.	and the rent subunits on
ii.	V	Vrite the role of:	
	a)) DTT b) EDTA	
	11-6		