Regis	stra	ation no:										
Total Number of Pages: 02 210 210 210 210 PC												
5 <sup>th</sup> Semester Regular / Back Examination 2016-17 GENETIC ENGINEERING AND R-DNA TECHNOLOGY BRANCH: Biotechnology Time: 3 Hours  Max Marks: 70 Q.CODE: Y236 Answer Question No.1 which is compulsory and any five from the rest. The figures in the right hand margin indicate marks.												
210	c)	Define YAC. Explain gene knock out Describe function of ligase. What is mi RNA? Explain the role of adapter. What is 2AFLP?  210 210 210 210	(2 x 10)	2								
	a) b)	application?	(2+8) (5) (5)	2:								
<b>Q4</b> <sub>0</sub>	,	Describe briefly steps in Polymerase Chain reaction? 210 210 What is the importance of molecular markers in rDNA Technology?	(5) (5)	2								

**b)** Describe briefly DNA microarray techniques and its application?

**Q5** a) What is RNAi? How does it work?

(5)

(5)

Qб	a)	the scientists to complete the projects?								
210	b)	What is a DNA vaccine? Briefly describe the production of DNA vaccines?								
Q7		Explain briefly the Sanger's method of DNA sequencing. Add a note on the significance of fluorescence tags in Sanger's method?								
<b>Q8</b>	a)	Write short answer or Ribozome Technolog	-	210	210	210	(5 x 2)	2		
	b)	Two hybrid system								
	c)	RFLP								
	d)	QTLs								
210		210	210	210	210	210		2		
210		210	210	210	210	210		2		
210		210	210	210	210	210		2		
210		210	210	210	210	210		2		