T. Y. B. SC. (BIOTECHNOLOGY) SEM – V (2010 COURSE) : SUMMER - 2018

SUBJECT: RECOMBINANT DNA TECHNOLOGY (RDT)

Day: Date:	Tuesday 03/04/2018		S-2018-1074	, ,	Time: 10.00 am to 01.00 pm	
N.B:	1) 2) 3)		All questions are COMPULSORY . Figures to the right indicate FULL marks. Answers to both the sections should be written in SEPARATE answer books.			
			SECTION-I			
Q.1	A)	Answei	r ANY ONE of the following:		(06)	
	a) b)		n outline of Lambda phage as a cloni are the various types of plasmids? Ex r.	•		
	B)	Answei	r ANY TWO of the following:		(10)	
	a)b)c)	Explair	re cosmids? Discuss cosmid as cloning the role of polymerases in genetic enthe methods of plasmid purification	engineering techniques.		
Q.2		Write short notes on ANY FOUR of the follow		llowing:	(16)	
	a)b)c)d)e)	Homop Recogn Role of	on of transformants using pBR322 polymer tailing nition sequences FT4 DNA ligase in <i>invitro</i> joining and Exonucleases			
			SECTION-II			
Q.3	A)	Answe	er ANY ONE of the following:		(06)	
	a) b)		eDNA libraries are constructed? in the technique of Agarose gel elect	rophoresis with its applications.		
	B)	Answe	er ANY TWO of the following:		(10)	
	a) b) c)	Write	ss Sanger's method of DNA sequence the applications of transgenic plants in the screening of libraries by nucle			
Q.4		Answe	er ANY FOUR of the following:		(16)	
	a)b)c)d)e)	What Explai How r	is blue white screening? Give its sig is gene therapy? Write its application in the process of DNA transformation recombinant phages are identified? are genomic libraries?	ns.		
Q.5		Write	short notes on ANY FOUR of the fo	ollowing:	(16)	
	a)b)c)d)e)	Oligoo Recon PCR b	accurate PCR capping nbinant Vaccines based screening ion using <i>spi</i> phenotype			

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