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SARDAR PATEL UNIVERSITY T.Y.B.Sc. (SEMESTER- VI)

EXAMINATION MARCH 2018

BIOCHEMISTRY: USO6CBCH01

TITLE: MOLECULAR BIOLOGY-II

Date: 26/03/18; Monday Time: 10:00 AM TO 01:00 PM TOTAL MARKS: 70

Q	.1 Select proper option from follo	wing M	íCQ.		· [10]
1)	In the trp operon leader sequence made	up of	n	ucleotides.	F
			d) 168		
2)	Genes for the enzymes of central metab	olic pathy	wavs are ref	ferred to as	genes
	a) Housekeeping b) induced ge				
3)	Structured gene A code for		•	=-, =	•
Í	a) thiogalactoside transacetylase		B-galactos	iduse	
	a) ratactacida name		all of these		
4)	Which one of the following is alkylating				
•	a) EES b) 5B				
	c) x-rays d) Hi				्रा विकास स्थान स्थान
5)	Which one of the following is a chemica		n?		
1	a) 5BU b) DMS	c) EMS	11,	d) all of these	
6)	Name the agent which producing distort	•	JΔ	d) an or mese	
-,				proflavine	Broger Carrier
7)	Which one of the following removes mg	r ⁺² that is	eccential fo	promavnic	
•,	cell envelope.	5 mai is	essential le	i preserving the t	overall structure of the
	a) EDTA b) Lysozyme	c) SDS	47	promase	
8)	Which of the following detergent forms		•	•	etin.
۷,	a) CTAB b) GTC	c) SDS		x with nucleic ac	ids?
9)	Enzymes are thermostable.	C) SDS	u)	EDIA	and the second
-)	a) Taq DNA polymerase	ы рыд	·		
	c) RNA polymerase	b) DNA directed DNA polymerased) Reverse Transcriptase			
10)	ddATP is used in method.	u) Rove	yso Italisoi	ripiase	
,	a) Sanger's method	b) Chai	n terminati	on	
	c) Maxam & Gilberts	d) a & l		011	
		u) a ce i	oodii		
Q2	Answer in short. (any Ten)				[20]
	What is an operon?				
	What is catabolic repression?				
	What do you know about SWI/SNF?				
	What do you know about hotspots?				
	What is Induced mutation?				
	Explain Role of 1) Glycasylase	2)Apen	donulease		
	Write the use of EtBr.				
8.	Write down the use of guanidium thiocy	anate.			_
		(9	`		(P.T.O.)

9. What is RFLP?	5. 李维尔整治系统	
10. What is gene probe?		and the state of t
11. Give reason: PCR is known as people's choice re		
12. What do you know about Taq DNA polymerase?	•	
Q3. Explain in detail Negative control mechanism of	Lac operon	[10]
	OR	
Q3. Explain in detail mechanism of attenuation		[10]
Q4 Write short note on:		
a) Agents labializes the base	and a sign of the sign.	[5]
b) Agents producing distortion in DNA		[5]
	OR	(4)
Q.4 Explain in short:		(v = =
a) Thymine dimer.		[5]
b) Direct repair.	*	[5]
Q. 5 Explain in detail:	\$1.00°	ta se
a) Ti plasmid.		[5]
b) Preparation of total cell DNA from bacteria.		[5]
	OR	
Q.5 Write short note on:	3	and the second s
a) Restriction Endonuclease.	ne de la Proposition de la Proposition La Proposition de la	[5]
b) PBR322 as a vector		[5]
Q6. Explain the following	en de la filosofia de la filos	e vieto, estevado Alb La regiona específica
a) DNA finger.		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
b) gene libraries		[5]
OR		
Q6. Explain the following		
a) PCR		[5]
b) Sanger & conclusion method for DNA seque	ence.	[5]
, 3		F.1.



 $(\hat{x}_1, \hat{x}_2, \dots, \hat{x}_n)^T \in \mathcal{L}_{p^{-1}(k)}$

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