BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CI 8550			SEMESTER · VII	
BRANCH	: PHARMACY		SESSION : MO/19	
TIME:	3 HOURS	UBJECT: PS/415 PHARMACEUTICAL BIOTECHNOLOGY	FULL MARKS: 60	
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	CTIONS:	ns 7 questions each of 12 marks and total 94 marks		
2. Candi	idates may attempt a	ns 7 questions each of 12 marks and total 84 marks. ny 5 questions maximum of 60 marks.		
3. The r	nissing data, if any, n	nay be assumed suitably.		
4. Befor	e attempting the que	stion paper, be sure that you have got the correct que	stion paper.	
J. Table		apri paper etc. to be supplied to the candidates in the o		
Q.1(a)	What are the differen	it types of RNA?	l	[2]
Q.1(b)	Discuss the role of pro	omoter regions during prokaryotic transcription.		[4]
Q. I(C)			I	.º]
Q.2(a)	Classify plasmids base	ed on their function.	l	[2]
Q.2(b)	Illustrate different m	ethods of recombinant identification.		[4]
Q.2(C)	Discuss in brief the di		I	_ 0]
Q.3(a)	What are phagemids?		l	[2]
Q.3(D)	Explain the construct	Ion of a cloning vector based on M13 bacteriophage		[4] [6]
Q.3(C)		sind technology and its appreation.	I	.01
Q.4(a)	How cDNA could be p	repared?	l	[2]
Q.4(D)	Write a note on recor	nDinant insulin preparation a PCR and optimal factors for conducting PCR		[4] [6]
	betan out the steps h		I	.•1
Q.5(a)	Enlist the techniques	for viewing nucleic acids and proteins on a gel.	l	[2]
Q.5(b)	Write note on wester	A blotting and its application. and process of Agarose Gel Electrophoresis in brief	l	[4] [6]
Q.J(C)	Discuss the principle	and process of Agarose det Electrophoresis in brief.	I	.01
Q.6(a)	What is cellular totip	otency?	l	[2]
Q.6(D)	Give an outline on the	e components of media for tissue culture.	rocedure	[4] [6]
Q.0(C)	now the plant cetts a	re processed for isolation of protoplasts. Detail out the p		.01
Q.7(a)	Classify nucleases.	and the first second	[[2]
Q.7(D) = 0.7(c)	How labelling of mole	aque nybriaization: ecular probe is carried out?		[4] [6]
	non abeans of mole		I	7.01

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