_____ **C.U.SHAH UNIVERSITY** Winter Examination-2015

Subject Name: Pharmaceutical Biochemistry II

	Subject Code: 4PS04PBC2			Branch : B.Pharm		
	Semest	er: 4	Date: 23/11/2015	Time: 2:30 To 5:30	Marks: 70	
	Instruct	tions:				
	(1)	Use of Pro	grammable calculator & any	y other electronic instrument	is prohibited.	
				ook are strictly to be obeyed.		
	(3)	Draw neat	diagrams and figures (if nec	cessary) at right places.		
	(4)	Assume su	itable data if needed.			
Q-1		Attemnt	the following questions:			(14)
Q-1	(a)	-	enetic code			(14)
	(b)	U	the types of RNA			
	(c)		the different techniques of	chromatography		
	(d)	Define er	-			
	(e)		lucleotide			
	(f)	What is t	he full name of DNA			
	(g)	What is 1	nucleoside			
	(h)	Define co	penzyme			
	(i)	What is l	nyperbilirubinemia			
	(j)	Define R	everse transcription			
	(k)	Define N	ucleic acid			
	(l)	Give the	name of purines and pyrimit	dines		
	(m)		NA transcription			
	(n)	Define C	entrifugation			
Atte	empt any	y four quest	ions from Q-2 to Q-8			
Q-2	2	-	all questions			(14)
	(a)		he mechanism of enzyme in			
	(b)	Write ab	out the mechanism of enzyr	ne action		
Q-3	;	-	all questions			(14)
	(a)		e proteins. Classify them w	ith suitable examples.		
	(b)	Write a r	ote on urea cycle			
Q-4		-	all questions			(14)
	(a)		detail about the process of r	1		
	(b)	Write a r	ote on damage and repair o	f DNA.		

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Q-5		Attempt all questions	(14)
	(a)	Explain initiation process of protein synthesis. Add a note on various inhibitors for protein synthesis.	
	(b)	What is polymerase chain reaction? Write its significance.	
Q-6		Attempt all questions	(14)
	(a)	Write about the component and reaction of respiratory chain.	
	(b)	Explain regulation of gene expression	
Q-7		Attempt all questions	(14)
	(a)	Describe de novo synthesis of purine nucleus and conversion of IMP to AMP and GMP.	
	(b)	Define Recombinant DNA technology. Write a note on Genetic Engineering.	
Q-8		Attempt all questions	(14)
-	(a)	Write a note on chromatography.	
	(b)	Write a short note on extraction and purification techniques of nucleic acids.	

