SECTION—B

		SECTION-D			
5.	Wha	What do you understand by Amino acids ? Draw chemical structures			
	for c	lifferent essential and non-essential amino acids.	8.5		
6.	Write notes on any <i>two</i> of the following (4.25 marks each) :				
	(a)	Purine and pyrimidine bases			
	(b)	Determination of amino acid sequence of proteins			
	(c)	tRNAs	8.5		
7.	Give	e a detailed account of Genetic code.	8.5		
8.	Write notes on any <i>two</i> of the following (4.25 marks each) :— 8.5				
	(a)	Types of DNA			
	(b)	Translation initiation complex			
	(c)	Alpha helix structure of proteins.			
		SECTION—C			
9.	Discuss in brief (2 marks each) :				
	(i)	Biomolecules			
	(ii)	Prokaryotic cell			
	(iii)	Telophase of mitosis			
	(iv)	Chitin			
	(v)	Gluconeogenesis			
	(vi)	Liposomes			
	(vii)	Zwitter ion form of amino acids			
	(viii)	Enzymes			
	(ix)	Translation			
	(x)	RNA polymerase			
	(xi)	Peptide bond.	11×2=22		

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Roll No.

Total No. of Pages : 2

PC 12972-N

K-8/2111 BIOLOGY FOR CHEMISTS—1105T Semester—I

Tim	e Allowed : Three Hours] [Maximum Marks :	55			
Note :- The candidates are required to attempt <i>five</i> questions <i>two</i> questions					
each from Sections A & B, the entire Section C which is compulsory.					
SECTION—A					
1.	Draw a well labelled diagram to show structure of a plant cell. Discu				
	in brief. 8				
2.	Write notes on any <i>two</i> of the following (4 marks each) :—				
	(a) Structure of nucleus				
	(b) Structure and functions of ribosomes				
	(c) Anabolism.				
3.	What do you understand by Kreb's cycle ? With the help of diagram				
	give a brief account of Kreb's cycle.	8			
4.	Write notes on any two of the following (4 marks each) :— 8				
	(a) Storage lipids				
	(b) Lipids as co-factors and pigments				
	(c) Lipid aggregates.				