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[12/A-14]

## SARDAR PATEL UNIVERSITY

**B.SC. 3rd Semester Examination 2022** 

Subject Code: US03CBCH01

(Biochemistry of Biomolecules 1)

**Subject: Biochemistry** 

27/9/22 Tuesday,						
12:30	PM To 2:30 PM		Tot	tal Marks: 70		
21. Choose the correct option and write it in the answer sheet:  1) Monomer unit of cellulose is  a) Galactose b) Isomaltose c) Ribose  3) One of the followings is between polygogeneride.						
1)	Monomer unit of cellulos					
,						
2)	One of the followings is hetero polysaccharide.					
	a) Heparin	b) Inulin				
	c) Glycogen	d) Cellulose		•		
3)	Reffinose is composed of glucose, fructose and					
	a) Ribose	b) Mannose				
	c) Ribulose	d) Galctose				
4)	ATP is a					
ŕ	a) Nucleoside	b) Nucleotide				
	c) Carbohydrate	d) Phosphorous				
5)	stores genetic inf	ormation that determine	s whether cell is a bo	one cell or brain		
	a) DNA	b) RNA				
	c) mRNA	d) tRNA	1.			
6)	The combination of a b	ase with a sugar and p	hosphate results in t	he formation of		
	a) Nuclicacid	b) Nuclioside				
	c) Nucliotides	d) None				
7)	The type of sugar in DN.	A is				
,	a) Heptose	b) Tetrose				
	c) Hexose	d) De-oxyribose		v.		
		v.		( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		
8)	In maizeoccurs in the bound form and is not available for utilisation					
	a) Vitamin A 🚜	b) Vitamin K		. (V)		
	c) Vitamin D	d) Niacin	• •	nie ()		
9)	Vitamin C, also known a	10		(A. )		
7)	a) Aspartic acid	b) Aspargine		F#		
	c) Hippuric acid	d) Antiscorbetic fac	for			
	o) imphano aota	aj randscorocac tac	WI	,		
1.0	Vioding is required for the	synthocic of Ho	rmono			

	a) Parathyroid b) Calcitonin c) Aldosterone d) Thyroid	a months
Q.2 (a)	Fill in the blanks	
(1)	Glucose and Mannose is epimeric pair.	
(2)	RNA havesugarmineral	
(3)	Synthesis of haemoglobin need mineral  Synthesis of haemoglobin need mineral	A Section 1
(4)	Riboflavin exists in two active coenzymes FMN and	40.1
	was as an a Waleo	[04]
Q.2 (a)	Write True and False	
(1)	Starch is plant storage oligosaccharide.  The structure of every protein is programmed by RNA.	
(2)	The structure of every protein is programmer.	
(3)	All vitamins are not water-soluble.	
(4)	Uracil has only a single ring.	
	A. C. Hawaran	[24]
Q.3	Answer any <u>TEN</u> from the following:	
(1)	Define oligosaccharide with examples.	
(2)	Define epimer, anomer and isomer with examples.	
(3)	Draw the structure of Lactose.	
(4)	Write little difference between Amylose and Amylopeans	
(5)	Differentiate nucleotide and nucleoside.	
(6	xxLite importance of IRNA.	
(7	Define vitamins and write importance of vitamin L.	
(8	for witcomin 1, 900 °C	
(9	to the restaural form of vitamin K? White their tooks as an	
(1)	Define mineral with examples.	
(1)	with the food sources of loding.	
	1. the government of Chloride and Polassium:	
(12	2) Wilde die 52 mg	
		[32]
0.4	Write Answer in detail (Any four)	
Q.4	What is oligosaccharide? Write detail factions of Caroon, drawn	
	The motor on Starch and Cellulose Will Structure.	
	dual model of LINA SHUULIU.	
71.8	(3) Describe Watson-Crick model of DNA and DNA.  (4) Write importance and differences of RNA and DNA.  (4) Write importance and differences of RNA and DNA.	
nch	' I I walk area (00) 11111CHOUN HAILY LOOKAR VAN	
./^p	(6) Describe functions, daily requirements of the Describe functions of calcium and Phosphorus.  (7) Write Biochemical functions of calcium and Phosphorus.	
	write Blochemical Teachers dietary sources of Sodium, magnesium and Iron.	
٠	(8) Discuss about functions, cheensy	•

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