## Enrollment No: \_\_\_\_\_ Exam Seat No: \_\_\_\_\_ C. U. SHAH UNIVERSITY **Summer Examination-2022**

Subject Name: Clinical Biochemistry - Theory

Subject Cod	e: 3SC01CLB1	Branch: PGDMLT	
Semester: 1	Date: 29/04/2022	Time: 11:00 To 02:00	Marks: 70
Instructions: (1) Use (2) Instr (3) Drav (4) Assu	of Programmable calculator & ar uctions written on main answer b v neat diagrams and figures (if ne ume suitable data if needed.	ny other electronic instrument is prob book are strictly to be obeyed. ecessary) at right places.	hibited.
Q-1	Attempt the following questio	ns:	(1x14=14)
a)	The number of hydrogen bonds DNA is (one / th	between guanine & cytosine in ree)	
b)	Genetic code is (d	legenerate / overlapping)	
c)	Normal adult hemoglobin HbA (2 $\alpha$ and 2 $\beta$ / 2 $\beta$ and 2 $\gamma$ )	consists of chains.	
d)	carries cholesterol fro	om peripheral tissues to liver. (HDL	/
e)	is end product of a CoA)	naerobic glycolysis. (lactate / Acety	4
f)	is present in milk. (S	ucrose / Lactose)	
g)	is end product of pr	otein metabolism. (urea / uric acid)	
h)	The tumor marker Acid Phosph (Prostate cancer / ovarian cance	atase is increased in	
i)	is antihemorr K)	hagic vitamin. (Vitamin A / Vitamir	1
j)	is stop codon. (UAC	G/UAC)	
k)	is the earliest serum infarction. (CK-MB / SGOT)	enzyme to rise after myocardial	
1)	hormone have hy Glucagon)	perglycemic effect. (Insulin /	
m)	Person with sickle cell trait has (malaria / cancer)	increased resistance to	
n)	coenzyme is invol (NAD / TPP)	ved in electron transport chain.	



## Attempt any four questions from Q-2 to Q-8

Q-2		Write short notes on:	(2x7=14)
	a)	Reactive Oxygen Species (ROS)	
	b)	Tumor Markers	
Q-3		Write short notes on:	(2x7=14)
	a)	Electrophoresis	
	b)	Classification of Lipoproteins	
Q-4		Attempt all questions.	(2x7=14)
	a)	Explain Structure, types and functions of RNA	
	b)	Describe Enzyme Inhibition	
Q-5		Attempt all questions.	(5+5+4=14)
	a)	Explain Biological functions of proteins	
	b)	Write a short note on Glycemic Index	
	c)	Describe in details about accuracy and precision	
Q-6		Attempt all questions.	(2x7=14)
	a)	Write in detail Digestion and absorption of carbohydrates and lipids	
	b)	Explain TCA Cycle and its importance	
Q-7		Attempt all questions.	(5+5+4=14)
-	a)	Describe Fructose metabolism and its significance	
	b)	Define carbohydrates. Describe classification of carbohydrates	
	c)	List Biochemical functions of potassium	
Q-8		Attempt all questions.	(5+5+4=14)
	a)	Explain Respiratory Buffer System	
	b)	Describe Renal Function Tests	
	c)	State Functions of vitamin A	

