Enrolli	nent N	No: Exam Seat No:	
		C.U.SHAH UNIVERSITY	
		Summer Examination-2022	
Summer Laummuton 2022			
Subject	t Nam	e : Biochemistry - Theory	
Subject	t Code	e: BP203T Branch: B.Pharm	
Semest Instruct	-	Date: 06/07/2022 Time: 11:00 To 02:00 Marks:	: 75
(2) (3)	Instru Draw	of Programmable calculator & any other electronic instrument is prohibited. actions written on main answer book are strictly to be obeyed. In neat diagrams and figures (if necessary) at right places. The suitable data if needed.	
Q-1	b) c) d) e) f) g) h)	Attempt the following questions: What is Michaelis-Menten hypothesis? Write function of ligase. Define process of transcription. Explain why LDL (low-density lipoprotein), sometimes called "bad" cholesterol. Define isoenzyme and coenzyme. Write structure and function of heme. What is ketoacidosis. Enlist lipid disorders. Write Gluconeogenesis pathway and its significance. Discuss in brief about biological significances of ATP and cyclic AMP. What are the steps involved in conversion of cholesterol into bile acids?	(20)
Q-2	A	Attempt any two of following: Classify enzyme inhibitors with suitable examples. Discuss factors	(20) 10
	В	affecting enzyme activity. Discuss protein structure in detail. Explain physical and chemical properties of proteins with suitable examples.	10
	C	Classify carbohydrates. Discuss stereochemistry of monosaccharide with examples.	10
Q-3	A B C D	Attempt any Seven of following: Describe electron transport chain with suitable example. Explain Hexose Monophosphate Pathway (HMP) in detail. Write synthetic pathway of adrenalin and nor-adrenalin from tyrosine. Give brief account on de-novo synthesis of pyrimidine ribonucleotides. Give structural representation of transamination and deamination	(35) 5 5 5 5 5
	F G H I	reaction. Discuss DNA replication process in detail. Outline the steps involved in tricarboxylic acid cycle. Write a brief note on β -oxidation. Discuss metabolic disorders of purine metabolism.	5 5 5 5

