____ **C.U. SHAH UNIVERSITY Summer Examination-2019**

Subject Name: Pharmaceutical Biochemistry- I							
Subject Code: 4	4PS03PBC1	Branch: B.Pharm					
Semester: 3	Date: 18/03/2019	Time: 02:30 To 05:30	Marks: 70				

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1		Attempt the following questions:	(14)
	a)	Write the location of Glycolysis cycle.	(1)
	b)	Define polysaccharides.	(1)
	c)	Give two examples of monosaccharide.	(1)
	d)	What do you mean by Glycogenolysis?	(1)
	e)	Exlpain cori cycle.	(1)
	f)	Define Enzyme.	(1)
	g)	Explain Inversion of Sugar.	(1)
	h)	Write name of hormone which regulate blood sugar level.	(1)
	i)	Write Role of Mitochondria.	(1)
	j)	Write examples of Water soluble vitamins.	(1)
	k)	Define glycogenesis.	(1)
	l)	What do you mean Apoptosis?	(1)
	m)	What do you mean by Dehydration?	(1)
	n)	Give example of derived lipids.	(1)
Atten	npt any f	Four questions from Q-2 to Q-8	
Q-2			(14)
-	a	What do you mean coenzyme? Explain the structure and function of any two co- enzymes.	(7)
	b	Describe in detail hexose monophosphate pathway and mention its importance.	(7)

Q-3 (14)Give a brief note on Gluconeogenesis a (7)

What are Lipids? Classify them and write the functions of lipids. b (7)



Q-4			(14)
	a	Explain Mechanism of Enzyme Inhibition	(7)
	b	Classify different types of Carbohydrates.Write a note on Diasaccharides.	(7)
Q-5			(14)
	a	Draw a neat diagram of Eukaryotic cell and explain the role of any four cell organelles.	(7)
	b	Explain reactions of TCA cycle with its energetics.	(7)
Q-6			(14)
	a	Explain biosynthesis of ketone bodies and its utilization.	(7)
	b	Describe in detail about active transport process.	(7)
Q-7			(14)
	a	Explain in detail Enzyme kinetics.	(7)
	b	Describe β -Oxidation of Fatty acids.	(7)
Q-8			(14)
	a	Explain IUB classification of enzyme.	(7)
	b	Explain in detail Glycolysis with energetic.	(7)

