

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name: Pharmaceutical Biochemistry I

Subject Code: 4PS03PBC1

Branch : B.Pharm

Semester : 3

Date : 04/12/2018

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.
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Q-1	Define the following terms:	(14)
	a) Active transport	(1)
	b) Mitochondria	(1)
	c) Carbohydrate	(1)
	d) Enzyme	(1)
	e) Enantiomer	(1)
	f) Invert sugar	(1)
	g) Amylose	(1)
	h) Glycogen	(1)
	i) Lipid	(1)
	j) α -oxidation	(1)
	k) Cholesterol	(1)
	l) Glycolipids	(1)
	m) Vitamin	(1)
	n) Lipoproteins	(1)

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

Q-2		(14)
	a Write the salient features of glycolysis.	(7)
	b Comparison between prokaryotic and eukaryotic cells.	(7)
Q-3		(14)
	a Describe the metabolism of fructose and galactose.	(7)
	b Explain Krebs cycle.	(7)
Q-4		(14)
	a Explain in detail glycogenolysis.	(7)
	b Discuss in detail uric acid cycle.	(7)



- Q-5** (14)
a Explain β -oxidation of fatty acid. (7)
b Write the various methods to control hypercholesterolemia. (7)
- Q-6** (14)
a Describe in detail ketogenesis. (7)
b Write a note on bile acid synthesis. (7)
- Q-7** (14)
a Discuss the metabolism of ketone bodies to acetyl CoA. (7)
b Explain glyoxylate cycle. (7)
- Q-8** (14)
a Describe the mechanism of enzyme inhibition. (7)
b Write the biochemical functions of calcium. (7)

