

GUJARAT TECHNOLOGICAL UNIVERSITY
Pharm D – 1st Year • EXAMINATION – SUMMER - 2018

Subject Code:818803**Date: 23/05/2018****Subject Name: Medicinal Biochemistry****Time:10:30AM TO 01:30PM****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a) Discuss at length the process of beta oxidation of fatty acids with energetics	06
	(b) Discuss about defective metabolism of lipids	04
	(c) Explain ketone bodies formation and their utilization	04
Q.2	(a) Classify proteins according to their biological functions. Write about kwashiorkor and marasmus.	06
	(b) Discuss urea cycle	04
	(c) Discuss about abnormal metabolism of proteins	04
Q.3	(a) Explain citric acid cycle with its energetic	06
	(b) Define coenzymes. Explain their biochemical role and deficiency diseases	04
	(c) Discuss specificity of enzymes	04
Q.4	(a) Explain (1) cori's cycle (2) Glycogen storage disorders	06
	(b) Describe the components of electron transfer chain and discuss the oxidation of NADH	04
	(c) Discuss about uncouplers as inhibitors of oxidative phosphorylation	04
Q.5	(a) Describe the hexose monophosphate shunt and add a note on its significance	06
	(b) Write a note on distribution of water and water balance in humans	04
	(c) Write in brief about the different laboratory investigations employed to assess liver functions	04
Q. 6	(a) Write note on energy rich compounds	06
	(b) Write briefly on the renal function tests	04
	(c) Discuss about (1) role of clinical chemistry laboratory (2) composition and functions of lipoproteins	04
Q.7	(a) Write note on damage and repair of DNA	06
	(b) Discuss about Gene expression in eukaryotes	04
	(c) Write note on RIA	04
