

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER- VI -- EXAMINATION – SUMMER -2018

Subject Code:260003

Date: 05/05/2018

Subject Name: Pharmaceutical Chemistry – VII (Biochemistry)

Time: 10:30 AM TO 01:30 PM

Total Marks: 80

Instructions:

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

Q.1	(a) What is genetic code? Explain the characteristics of genetic code.	06
	(b) Explain mechanism for DNA repair.	05
	(c) Write brief note on replication of DNA.	05
Q.2	(a) Explain: oxidative phosphorylation. Discuss chemiosmotic hypothesis in detail.	06
	(b) Describe reactions of electron transport chain and its inhibitors.	05
	(c) Discuss enzymes involved in biological oxidation with examples.	05
Q.3	(a) Write a note of centrifugation and chromatography in biochemistry	06
	(b) Give details about electrophoresis techniques.	05
	(c) Write a note on distribution of water and water balance in humans.	05
Q.4	(a) What is PCR? Write a brief note on PCR with significance.	06
	(b) Write biosynthesis, transport and storage of sodium in human body	05
	(c) Explain Lac Operon concept.	05
Q.5	(a) Write a note on Urea cycle.	06
	(b) Discuss transamination and deamination.	05
	(c) Write a brief account on biosynthesis of fatty acids.	05
Q. 6	(a) Write a brief account on biosynthetic pathway of Porphyrin.	06
	(b) Explain metabolism of sulphur containing amino acids.	05
	(c) Explain biosynthesis of pyridine nucleotides.	05
Q.7	(a) Discuss pathway for the metabolism of cholesterol.	06
	(b) Describe β - Oxidation of fatty acids.	05
	(c) What is ketouria? Write about ketogenesis and its utilization.	05
