

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm SEMESTER VI- • EXAMINATION – WINTER-2016

Subject Code: 260003

Date:21/10/2016

Subject Name: Pharmaceutical Chemistry-VII (Biochemistry)

Time: 2.30 PM to 5.30 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)	Write about biosynthesis and utilization of ketone bodies.	06
	(b)	Give detailed account on enzymes involved in biological oxidation	05
	(c)	Explain Urea cycle with its metabolic disorders.	05
Q.2	(a)	Discuss purine biosynthesis. Explain inhibitors of purine synthesis	06
	(b)	Write a note on replication of DNA in prokaryotes	05
	(c)	Write a note on Genetic code	05
Q.3	(a)	Define protein synthesis. Write a note on inhibitors of protein synthesis	06
	(b)	Write a note on chromatography	05
	(c)	Discuss biosynthesis of Heme	05
Q.4	(a)	Discuss Transamination and Deamination reactions	06
	(b)	Write a short note on RNA	05
	(c)	Define bioenergetics and discuss concept of free energy	05
Q.5	(a)	What is PCR? Write a note on PCR & its significance	06
	(b)	Give details about electrophoresis techniques.	05
	(c)	Write a note on β -oxidation of fatty acids.	05
Q. 6	(a)	What is operon? Explain Lac operon	06
	(b)	Explain in brief metabolism of sulphur containing amino acids.	05
	(c)	Discuss in detail cholesterol biosynthesis.	05
Q.7	(a)	Discuss about Transcription process in prokaryotes	06
	(b)	Discuss metabolism of water	05
	(c)	Discuss biochemical role and deficiency symptoms of calcium.	05
