Cub	ioot (GUJARAT TECHNOLOGICAL UNIVERSITY B. Pharm SEMESTER VI—• EXAMINATION — WINTER-2016 Code: 260003 Date:21/10/202	16
	•		10
Tim Instr 1 2	ne: 2. ruction . Att	Name: Pharmaceutical Chemistry-VII (Biochemistry) 30 PM to 5.30 PM Total Marks: 8 as: dempt any five questions. deke suitable assumptions wherever necessary. depute to the right indicate full marks.	80
Q.1	(a) (b) (c)	Write about biosynthesis and utilization of ketone bodies. Give detailed account on enzymes involved in biological oxidation Explain Urea cycle with its metabolic disorders.	06 05 05
Q.2	(a) (b) (c)	Discuss purine biosynthesis. Explain inhibitors of purine synthesis Write a note on replication of DNA in prokaryotes Write a note on Genetic code	06 05 05
Q.3	(a) (b) (c)	Define protein synthesis. Write a note on inhibitors of protein synthesis Write a note on chromatography Discuss biosynthesis of Heme	06 05 05
Q.4	(a) (b) (c)	Discuss Transamination and Deamination reactions Write a short note on RNA Define bioenergetics and discuss concept of free energy	06 05 05
Q.5	(a) (b) (c)	What is PCR? Write a note on PCR & its significance Give details about electrophoresis techniques. Write a note on β-oxidation of fatty acids.	06 05 05

Explain in brief metabolism of sulphur containing amino acids.

Discuss biochemical role and deficiency symptoms of calcium.

06

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What is operon? Explain Lac operon

Discuss metabolism of water

Discuss in detail cholesterol biosynthesis.

Discuss about Transcription process in prokaryotes

Q. 6

Q.7

(a)

(b)

(c)

(a) (b)

(c)