Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER - 3 EXAMINATION - SUMMER -2019

Subject Code: BP303TP Date: 01-06-2019

**Subject Name: Biochemistry** 

Time: 02:30 PM TO 05:30 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)	Enlist unsaturated fatty acids and discuss oxidation of omega-3 fatty acid	06
	<b>(b)</b>	Discuss amphibolic nature of citric acid cycle.	05
	<b>(c)</b>	Explain β-oxidation of fatty acid	05
Q.2	(a)	Explain the properties and identification tests of carbohydrate	06
	<b>(b)</b>	Define: Iodine number, Saponification number, Acid number,	05
		Rancidity, Mutarotation	
	<b>(c)</b>	Write a note on TCA cycle	05
Q.3	(a)	Discuss importance of Cori's cycle	06
	<b>(b)</b>	Discuss the Synthesis of Glucose from Non-Carbohydrate sources	05
	(c)	Write a note on regulation of enzyme activites	05
0.4		Write a note on relative and fortist	0.6
Q.4	(a)	Write a note on galactose and fructose	06
	<b>(b)</b>	Write a note on cholesterol biosynthesis	05
	<b>(c)</b>	Discuss the transport mechanism across cell membrane	05
Q.5	(a)	Describe the structures and function of mucopolysaccharides	06
	<b>(b)</b>	Describe the Watson and Crick Model of DNA Structure	05
	(c)	Discuss enzyme kinetics in brief and its mechanism of action	05
Q. 6	(a)	Explain Metals and Vitamins as Co-enzyme and their Significance	06
	<b>(b)</b>	Write a note on protein synthesis and inhibitors.	05
	(c)	Write a note on Lipid Storage Diseases	05
Q.7	(a)	Explain the genetic code with its characteristics	06
<b>Q.</b> 7	(b)	Explain in detail the process of RNA synthesis.	05
		Describe significance of melatonin and dopamine.	05
	(c)	Describe significance of inclatonin and doparime.	บอ

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