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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION - WINTER 2018

Subject Code: 2160501 Date		e:16/11/2018	
Sub	ject l	Name: Mass Transfer Operation - II	
Time: 02:30 PM TO 05:00 PM Total N			arks: 70
Instr	uction		
	1.	Attempt all questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
	٠.	right es to the right indicate run marks.	MARKS
Q.1	(a)	Explain separation in Enriching and Stripping section of continuous	03
	(a)	rectification column.	0.5
	(b)		04
	(c)		07
Q.2	(a)	Explain feed tray location.	03
	(b)	Draw the location of q line for various thermal condition of feed.	04
	(c)	Derive equation of q-line.	07
		OR	
	(c)	•	07
Q.3	(a)	temperature.	03
	(b)	7.2	04
	(c)	•	07
		OR	
Q.3	(a)		03
	(b)		04
	(c)		07
Q.4	(a)	Define: Moisture content on wet basis, moisture content on dry basis, bound moisture.	03
	(b)	A 1/1	04
	(c)	Explain liquid diffusion within the solid. OR	07
Q.4	(a)		03
	(b)	Classify rotary dryer and explain any one shortly.	04
	(c)	Explain typical rate of drying curve under constant drying conditions.	07
Q.5	(a)	Explain physical adsorption.	03
	(b)	Explain adsorption from concentrated solutions.	04
	(c)		07
0.5	(-)	OR Evaloin chemiserations	02
Q.5	(a) (b)	•	03 04
	(c)	<u>.</u>	07
	(-)	Describe working or pressure swing absorber.	0,
