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GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code: 2172603 Date

Subject Name: Rubber Plant & Process Engineering

Marks: 7	0
	TATALIZE /

Instructions:

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

Q.1 (a) Name the chemical responsible for each of the following health hazards:(i)Bladder cancer (ii) Skin cancer (iii) Kidney damage (b) Why Good housekeeping is important for Rubber Industries? (c) Discuss the health hazard from various types of non black fillers.

Q.2 (a) Explain the concept of Total Quality Management. 03

(b) Describe in brief management philosophies: Just In Time And RFT.

(c) The annual data for XYZ Ltd. is given below:

Sr.No.	Particulars	Amount Rs.	
1	Sales 1,00,000 units at Rs	. 200/- each	
2	Raw material cost	10,00,000	
3	Utility Cost	1,00,000	
4	Labour Cost(Daily Wages)	3,00,000	
5	Salaries	10,00,000	
6	Administrative expenses	1,50,000	
7	Rent, Insurance	1,00,000	

Calculate variable cost, fixed cost, contribution and breakeven point as percent installed capacity.

OR

	(c)	Draw the plant layout diagram for O-Ring manufacturing	07
		industry	
Q.3	(a)	Give any three examples of Chronic toxicity.	03
	(b)	Describe the features of Rural site location for plant.	04
	(c)	Explain different forms of plant maintenance.	07
		OR	
Q.3	(a)	Write the common effects of Rubber Chemicals on health.	03
	(b)	Write down the importance of plant layout for industries	04
		Purpose.	
	(c)	Write the damages caused by the pollution on the natural	07

functioning of biosphere.



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(a)	Mention the areas of Noise pollution in rubber industry.	03
(b)		04
(c)	· · · · · · · · · · · · · · · · · · ·	07
` '	OR	
(a)	Write various components of safety program.	03
(b)	· · · · · · · · · · · · · · · · · · ·	04
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	1 0	
(a)	, and the second	03
` ′	• • •	04
` '	location.	
(c)	List all the information needed to judge the project from	07
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	OR	
(a)	Discuss on inerting system.	03
` '	.	04
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	(b) (c)	 (b) Discuss fundamental criteria for Engineers. (c) Write a note on personal protective equipments. OR (a) Write various components of safety program. (b) Explain any one method for controlling fire hazards. (c) Define the terms:-Peak power demand & Power factor. Explain the ways for Conserving energy in rubber industry. (a) What is meant by toxicity? Give examples. (b) Write a note on Secondary factors for selecting plant location. (c) List all the information needed to judge the project from financial angle. OR (a) Discuss on inerting system. (b) List different ways for reducing physical waste generation.

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