

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VII (NEW) EXAMINATION – WINTER 2020

Subject Code:2172603**Date:25/01/2021****Subject Name:Rubber Plant & Process Engineering****Time:10:30 AM TO 12:30 PM****Total Marks: 56****Instructions:**

1. Attempt any **FOUR** questions out of **EIGHT** questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

MARKS

- Q.1** (a) Write the effect of crystalline silica on health. **03**
(b) Write the advantages of Good Housekeeping. **04**
(c) Discuss the advantages of safety program in rubber industry. **07**

- Q.2** (a) Explain the concept of TQM. **03**
(b) Describe in brief management philosophies: Just In Time
And first-in, first-out. **04**
(c) The annual data for IBA Ltd. is given below: **07**

Sr.No.	Particulars	Amount Rs.
1	Sales 2,00,000 units at Rs. 200/- each	
2	Raw material cost	20,00,000
3	Utility Cost	2,00,000
4	Labour Cost(Daily Wages)	2,00,000
5	Salaries	14,00,000
6	Administrative expenses	1,00,000
7	Rent, Insurance	1,00,000

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

- Q.3** (a) Give any three examples of Chronic toxicity. **03**
(b) Describe the features of Urban site location for plant. **04**
(c) Explain different forms of plant maintenance. **07**

- Q.4** (a) Write the common effects of Vulcanizing agent on health. **03**
(b) Why plant layout is required? Explain any one reason in detail. **04**
(c) Write a note on time study procedure. **07**

- Q.5** (a) Mention the areas of pollution in rubber industry. **03**
(b) Discuss any four benefits of Scheduling in production department. **04**
(c) Describe in detail any two methods of waste tyre disposal. **07**

- Q.6** (a) Write the effect of Filler on health. **03**
(b) Explain any one method for controlling fire hazards. **04**
(c) Describe various components of Quality System. **07**

- Q.7** (a) What is meant by Acute toxicity? Give examples. **03**
(b) Write a note on Secondary factors for selecting plant location. **04**
(c) List all the information needed to judge the project from financial angle. **07**
- Q.8** (a) List any three chemicals using as Accelerators. **03**
(b) Discuss on Engineering Ethics. **04**
(c) Describe the handling methods at mixing and calendering stations. **07**

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