

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– VII (New) EXAMINATION – WINTER 2019****Subject Code: 2172603****Date: 28/11/2019****Subject Name: Rubber Plant & Process Engineering****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

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

		MARKS
Q.1	(a) Explain the concept of RFT.	03
	(b) Write the beneficial of good housekeeping for rubber industries.	04
	(c) Write the effect of PBN, DPG, Sulphur and talc on health.	07
Q.2	(a) List different ways for reducing physical waste generation.	03
	(b) Write the effect of crystalline silica on health.	04
	(c) List all the information needed to judge the project from financial angle.	07
OR		
	(c) List the factors affecting the cost of project. Explain any two in detail.	07
Q.3	(a) Differentiate mutagen and clastogen.	03
	(b) Discuss on Engineering Ethics.	04
	(c) Describe various components of safety program.	07
OR		
Q.3	(a) Give any three examples of Chronic toxicity.	03
	(b) Describe in brief management philosophies: Just In Time and Total Quality Management.	04
	(c) Write a note on any two methods for preventing fires and explosion in Rubber industry.	07
Q.4	(a) Write the common effects of blowing agent on health.	03
	(b) Describe the handling methods at mixing section.	04
	(c) Draw the plant layout diagram for O-ring manufacturing unit.	07
OR		
Q.4	(a) List the names of reinforcing filler using in rubber industries.	03
	(b) List the advantages of industrial estates.	04
	(c) Discuss the specific factors affecting plant site location.	07
Q.5	(a) Mention the areas of water pollution in rubber industry.	03
	(b) Discuss any four benefits of motion economy.	04
	(c) Write the damages caused by the pollution on the natural functioning of biosphere.	07
OR		
Q.5	(a) Explain any One method for waste tyre disposal.	03
	(b) Describe the features of city site location for Rubber plant.	04
	(c) Write a note on energy conservation in rubber industry.	07
