Seat No.:		Enrolment N	Enrolment No		
		UJARAT TECHNOLOGICAL UNIVER BE - SEMESTER-VII • EXAMINATION – WINTER			
Subject Code: 172603 Date			ate: 04-12-2014		
Subj	ect Na	me: Rubber Plant & Process Engineeering			
			Cotal Marks: 70		
Instru	2. M	ttempt all questions. Take suitable assumptions wherever necessary. Igures to the right indicate full marks.			
Q.1	Answer the following		(14)		
	(i)	Name any two bladder carcinogens.			
	(ii)	Write the effect of crystalline silica on health.			
	(iii)	Name the chemicals responsible for narcosis.			
	(iv)	Define the term teratogen. Give example.			
	(v)	Write a short note on general hazards from blowing agents.			
	(vi)	Write about the acute hazard associated with carbon black.			
	(vii)	What is meant by chronic toxicity? Give examples.			
Q.2	(a)	Calculate annual raw material cost for natural rubber bush frofollowing data: Weight of one bush:- 100 g Total production per year: - 20 lac units. No. of shifts:- One Also suggest mixing equipment. Assume suitable formulation			
	(b)	and other data. Discuss on various factors affecting cost of production.	(07)		
	(b)	OR	(07)		
	(b)	Discuss on working capital requirement and its financing.	(07)		

Describe various components of safety program.

Discuss energy conservation in rubber industry.

explosion in industry.

Describe preventive maintenance.

Explain in detail JIT and RFT.

Write a note on time study.

Write the advantages of good housekeeping in rubber industry.

Write a note on any two methods for preventing fires and

Describe in detail any two methods of waste tyre disposal.

OR

(07)

(07)

(07)

(07)

(07)

(07)

(07)

(07)

Q.3

Q.3

Q.4

Q.4

(a)

(b)

(a)

(b)

(a)

(b)

(a)

(b)

Q.5	(a)	List the obstacles to an entrepreneur. How these are minimized in govt. industrial estates?	(08)
	(b)	Why plant layout is required? Discuss any two reasons in detail.	(06)
Q.5	(a)	Write the advantages and disadvantages of locating the plant at rural site.	(06)
	(b)	Discuss transport and storage in manufacture for the rubber industry in detail.	(08)
