Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII • EXAMINATION - WINTER • 2014

Subj	ect C	20de: 1/2004 Date: 2/-11-201	4
_		lame: Rubber Product Manufacturing	
		30 am - 01:00 pm Total Marks: 7	' 0
Instru	1 2.]	: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	Ans	wer the following	
	(a)	Which Points should be taken into consideration in the Dock Fender selection Procedure?	(05)
	(b)	Explain in detail about the Principles of Damping.	(06)
	(c)	"Butyl Rubber is used for manufacturing of Pharmaceutical Closures." Justify the statement.	(03)
Q.2	(a)	Answer the following.	
	(i)	Draw the flow chart of manufacturing process of Rubber Band.	(03)
	(ii)	Application of Rubber in Sports field.	(04)
	(b)	Answer the following.	
	(i)	Explain the Role of Viscosity in Degree of Expansion.	(04)
	(ii)	State the difference between NR Ebonite & SBR Ebonite Rubber.	(03)
		OR	
	(b)	Answer the following.	
	(i)	Write in detail about compounding of Sponge Rubber.	(04)
	(ii)	State three major application of Ebonite Rubber.	(03)
Q.3	(a)	State the difference between Seal & Gasket.Write in detail about the types of Seals.	(05)
	(b)	Discuss in detail about manufacturing process of Simple Play Ball.	(09)
		OR	
Q.3	(a)	Write in detail about manufacturing process of Conventional Golf Ball.	(08)
	(b)	Describe the manufacturing of Seals by Extrusion Process.	(06)
Q.4	(a)	Write in detail about the Compound design of Linning for Acid Storage Tank.	(04)
	(b)	Which Properties should be considered while compound design for Hot Water Bottle? Write the Moulding & Curing procedure for manufacturing of Hot Water Bottle.	(05)
	(c)	Discuss in detail about spreading Process for manufacturing of Printing Blanket.	(05)
		P.T.O	

Q.4	(a)	Storage Tank.	(04)
	(b)	Write the manufacturing process for Surgical Tubing.	(05)
	(c)	Desribe all the process for manufacturing of Printing Blanket after Curing Process.	(05)
Q.5	(a)	Discuss in detail about Polymeric Materials for Cable Insulation.	(07)
	(b)	List the applications of Rubber Rollers.	(04)
	(c)	Write the finishing process for Rubber Rollers.	(03)
		OR	
Q.5	(a)	How Electrical Stress & Insulation Thickness should determine for Cable Design? Explain in detail.	(07)
	(b)	Desribe about the Bonding methods for Manufacturing of Rubber Rollers.	(04)
	(c)	How Cores for Rubber Rollers can be prepared for Bonding Procedure?	(03)
