Seat	No.:	Enrolment No	_
		GUJARAT TECHNOLOGICAL UNIVERSITY	-
Sub	ject	BE - SEMESTER-VII • EXAMINATION – WINTER 2013 Code: 172604 Date: 28-11-202	13
Subject Name: Rubber Products Manufacturing Time: 10:30 TO 01:00 Total Marks: 70			70
Instr	uction		
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What do you mean by cellular rubber? Compare the different classes of cellular rubber.	(07)
	(b)	Discuss the manufacturing of rubber band from solid rubber. State its limitation also.	(07)
Q.2	(a)	List the steps involved for doing tank lining. Describe all in detail.	(07)
	(b)	Write the application of rubber in Defense field. OR	(07)
	(b)		(07)
	(b)	field.	(07)
Q.3	(a) (b)	Define the term "Ebonite." Write the properties of ebonite rubber. Write about the properties, application, formulation & dough preparation for printing blanket.	(07) (07)
		OR	
Q.3	(a)	List the properties desired for pharmaceutical closures. Discuss in detail about the post curing process for pharmaceutical closures.	(07)
	(b)	Explain in detail about solvent recovery, testing & curing process for printing blanket.	(07)
Q.4	(a)	Discuss the different methods used for cross linking the polyethylene used as insulating materials for manufacturing of power cable.	(06)
	(b)	Write about the properties, formulation and moulding process for manufacturing of Hot water bottle.	(04)
	(c)	Describe in detail about Vibration & Shock. OR	(04)
Q.4	(a)	Discuss the manufacturing technology for vibration isolators & shock mounts.	(07)
	(b)	Explain the importance of current carrying capacity & selection of conductor c/s area for cable design.	(04)
	(c)	problems occurred during manufacturing of Hospital sheet.	(03)
Q.5	(a)	Discuss about design of rubber rollers & choice of materials.	(06)
	(b)	Explain about compressed air inflation method used for manufacturing of Tennis ball.	(05)
	(c)	Write about the types of seals.	(03)

OR Q.5 Explain the importance of roll balance for rubber roller. (06)(a) **(b)** List the different methods for manufacturing of liquid center for wound golf (04)ball. (c) Write about the selection of rubber for oil seals. (04)******