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GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code:2172604 Date:30/01/2021

Subject Name:Rubber Products Manufacturing

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.

Q.1	(a)	Explain the difference between Vibration & Shock.	03
	(b)	Which properties are required for Pharmaceutical Closures? Which rubber is used for manufacturing of Pharmaceutical Closures? Why?	04
	(c)	What do you mean by Dock Fender? Write its applications & properties. Draw the profile chart of dock fender and explain the stepwise manufacturing process.	07
Q.2	(a)	Define the term cellular rubber. Compare the different classes of cellular rubber.	03
	(b)	Which points should be kept in mind while designing a slipper sole?	04
	(c)	Explain in detail the relationship of Mooney viscosity & degree of expansion.	07
Q.3	(a)	Give the difference between ebonite & semi ebonite rubber.	03
	(b)	Draw the section of Squeeze type and Lip seals.	04
	(c)	Write in detail about manufacturing process of Rubber band from Solid rubber.	07
Q.4	(a)	Discuss about types of Seals.	03
	(b)	Discuss in detail about the curing process for Ebonite Rod.	04
	(c)	Write in detail about manufacturing process of Tennis Ball.	07
Q.5	(a)	Write the importance of Lining for Acid Storage Tank. Discuss the tank cleaning process before applying a lining.	03
	(b)	Why hospital sheeting manufactured from rubber? Discuss the compound design for hospital sheeting and state the manufacturing steps.	04
	(c)	How Cores for Rubber Rollers can be prepared for Bonding Procedure? Discuss the bonding methods for manufacturing of Rubber Rollers.	07
Q.6	(a)	Write the finishing process for Rubber Rollers.	03
	(b)	Discuss the lining & curing process for acid storage tank.	04
	(c)	Discuss in detail about manufacturing process of Hot water bottle.	07
Q.7	(a)	Explain the importance of current carrying capacity & selection of conductor c/s area for cable design.	03
	(b)	Describe the Curing Process for manufacturing of Printing Blanket.	04
	` ′	Discuss in detail about XI PF Cable	07



Fig. 8 ranker.com

Fig. 8 ranker State problems occurred during manufacturing of Rubber Printing Rlankets Discuss the remedies for those problems. 03

List out the applications and properties for manufacturing of Printing Blanket. Suggest **(b)** 04 the formula for manufacturing of Printing Blanket.

Discuss in detail about the curing process for Elastomeric Cable. **07 (c)**

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