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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) EXAMINATION - WINTER 2018

Subject Code: 2172604 Date: 29/11/2018

Subject Name: Rubber Products Manufacturing

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.

Q.1 Answer the following (a) Importance of Dock Fenders in Marine applications. (03) (b) Which rubbers are used for manufacturing of Rubber Stoppers? Why? (04)

- (c) Define the term (1) Vibration (2) Shock. Write about the principles of Isolation. (07)
- Q.2 Answer the following.
 - (a) Which process is suitable for giving shape and manufacturing of Rubber band from solid rubber in bulk? Why?
 - (b) Give the difference between Microcellular & Macrocellular Rubber. (04)
 - (c) List the applications of rubber in Medical & Mechanical Engineering field. (07)

OR

- (c) List the applications of rubber in Army, Air force & Navy field. (07)
- Q.3 (a) "Ebonite rubber is a versatile material." Justify the statement. (03)
 - (b) List the different methods for manufacturing of Seals. Write any one in detail. (04)
 - (c) Discuss in detail about manufacturing process of Simple Play Ball.

OR

- Q.3 (a) State the difference between seal & gasket. List the different types of seal. (03)
 - (b) Short note on "Melton Cloth for Tennis Ball." (04)
 - (c) Discuss in detail about manufacturing of Ebonite Rod. (07)
- Q.4 (a) State the problems occurred during and after the curing process of tank lining by rubber compound. (03)
 - (b) Write about the compound design for Rubber Roller. (04)
 - (c) Discuss the manufacturing process of Hot water bag. (07)

OR

- Q.4 (a) List the properties required for manufacturing of Surgical tubing. (03)
 - (b) Why Tank Lining is required? Write the compound design for Lining of Tank. (04)
 - (c) Define the term 'Rubber Roller'. Explain the importance of roll balance for (07) rubber roller.



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Q.5	(a)	Write about the different forms of conductors used for manufacturing of Cable.	(03)
	(b)	Short note on "Spreading Process" for manufacturing of Printing Blanket.	(04)
	(c)	Why polyethylene is cross-linked as an insulation material for Cable? How it can cross linked?	(07)
		OR	
Q.5	(a)	Which Polymers are used for manufacturing of Printing Blanket? Why?	(03)
	(b)	Explain in detail about the importance of current carrying capacity & selection of conductor cross-sectional area for Cable Design.	(04)
	(c)	Describe all the process for manufacturing of Printing Blanket after Curing	(07)

Process.

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