Enrolment 1	No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

		<b>BE - SEMESTER-VII EXAMINATION - WINTER 2015</b>		
v		Code: 172604 Date:16/12/2015		
v		Name: Rubber Product Manufacturing		
	Time: 10:30am to 1:00pm Total Marks: 70 Instructions:		)	
Instru		s: Attempt all questions.		
	2.	Make suitable assumptions wherever necessary.		
	3.	Figures to the right indicate full marks.		
Q.1	Ans	wer the following		
	<b>(a)</b>	Define the term (1) Vibration (2) Shock. Write about the principles of Isolation.	(05)	
	<b>(b)</b>	Write the applications, formulation & properties of Rubber Stoppers.	(06)	
	(c)	Importance of Dock Fenders in Marine applications.	(03)	
Q.2	(a)	Answer the following.		
	(i)	Which process is suitable for giving shape and manufacturing of Rubber band in bulk? Why?	(03)	
	( <b>ii</b> )	Discuss the application of rubber products in electrical engineering field.	(04)	
	<b>(b)</b>	Answer the following.		
	(i)	Give the difference between Microcellular & Macrocellular Rubber.	(05)	
	( <b>ii</b> )	How the Ebonite Rubber is produced? Write in detail. OR	(02)	
	<b>(b)</b>	Write in detail about the manufacturing of Expanded Rubber.	(07)	
Q.3	(a)	Discuss in detail about selection of Rubbers for oil seals. Write the properties required for seal materials.	(07)	
	<b>(b)</b>	Describe about core manufacturing for Tennis Ball.	(07)	
OR				
Q.3	(a)	Write in detail about manufacturing process of Simple play ball.	(08)	
	<b>(b)</b>	Describe the manufacturing of Seals by Extrusion Process.	(06)	
Q.4	(a)	Describe in detail about manufacturing process for Lining of tank.	(07)	
	(c)	Explain about the manufacturing process of Hot Water Bottle. OR	(07)	
Q.4		Write about applications, properties, formulation and manufacturing process for Printing Blanket with flow chart.	(14)	
Q.5	<b>(a)</b>	Short note on Crosslinkable Polyethylene material used for Power Cable.	(07)	
	(b)	Discuss the compounding for manufacturing of Rubber Rollers. Write the formula for any two type of rubber rollers.	(07)	
		OR		
Q.5	(a)	List the factors on which primary Cable design depend? Discuss any two in detail.	(08)	

(b) Explain the importance of roll balance for rubber roller. (06)