GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-IV • EXAMINATION – WINTER 2013

BE - SEMESTER-IV • EXAMINATION – WINTER 2013			
Subject Code: 142304 Date: 30-12-201			
Subject Name: Plastic Packaging Technology			
Tiı	Time: 02:30 pm to 05:00 pm Total Marks: 70		
Instructions:			
 Attempt all questions. Make suitable assumptions wherever necessary. 			
		. Figures to the right indicate full marks.	
Q.1	(a)	Enlist the different types of plastic films available for packaging. Explain LLDPE and PS film.	07
	(b)	Explain Mechanical Testing done on Plastic Film.	07
Q.2	(a)	What is corrugated board? Enlist types of corrugated boards. Provide Properties	07
-		of corrugated board.	
	(b)	Explain climate hazards in detail.	07
	(b)	OR What are the functions of poskage? Evaluin in detail	07
	(b)	What are the functions of package? Explain in detail.	07
Q.3	(a)	Where we required migration test? Explain with neat sketch Water Vapour Transmission Rate (WVTR).	07
	(b)	What is package wrapping Techniques? Explain Shrink Film Wrapping in	07
		detail.	
Q.3	(a)	OR Where we required migration test? Explain with neat sketch Gas Transmission	07
Q.5	(a)	Rate (GTR).	07
	(b)	What is package wrapping Techniques? Explain Strech Wrapping in detail.	07
Q.4	(a)	What is Regular Slotted Container (RSC)? Enlist types of RSC. Draw and explain different types of Dividers, Liner, Pad and Support Block available in corrugated boxes.	07
	(b)	Explain Setup Boxes in detail with its types and advantages and disadvantages. OR	07
Q.4	(a)	Enlist different types of Paper available for packaging with advantages and	07
	(b)	disadvantages. Explain them in detail with treatment of papers. Why we need to change package design? Explain it.	07
0.5			
Q.5	(a)	Define Packaging in terms of "Market". Draw a chart showing relationship with other disciplines. And explain who needs packaging.	07
	(b)	What are the basic design factors for good design of package?	07
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Q.5	(a)	Enlist and explain in detail, types of packaging.	07 07
	(b)	Explain shelf life in detail.	07
