GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016

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Subj	ect C	Code: 2722411 Date: 27/	05/2016	
Subject Name: Plastics Packaging Technology				
Time:10:30 am to 01:00 pm Total Ma			arks: 70	
Instructions:				
1. Attempt all questions.				
	2. Make suitable assumptions wherever necessary.			
3. Figures to the right indicate full marks.				
Q.1	(a)	Discuss the importance of colour as a sales medium. Discuss the factors	07	
		to be considered for selection of colours for packaging.		
	(b)	How many different types of paper available for packaging? Explain	07	
		them in detail with treatment of papers.		
Q.2	(a)	Define Packaging. Explain in brief Purpose of Packaging.	07	
	(b)	Enlist the different types of plastic films available for packaging.	07	
		Explain LLDPE and PS film.		
	OR			
	(b)	List out the types of Plastics films used for Packaging. Explain about	07	
	<i>(</i>)	Polypropylene film with properties and application.	~ -	
Q.3	(a)	What is Blown up ratio? Describe blown film manufacturing process	07	
		with line diagram.	~ -	
	(b)	Explain manufacturing of biaxial oriented cast film with neat diagram.	07	
		Give difference between cast film and blown film.		
0.2	(-)	OR	07	
Q.3	(a)	Explain Injection blow molding (IBM) process with neat diagram. Give difference between IBM and EBM	07	
	(b)	Discuss about stretch wrap and shrink wrap form of flexible plastic	07	
	(b)	packaging.	07	
Q.4	(a)	Where we required migration test? Explain with neat sketch Water	07	
V 11	(4)	Vapour Transmission Rate (WVTR).	07	
	(b)	Describe Pad printing process with neat diagram and also give their	07	
	()	applications.	07	
		OR		
O.4	(a)	What is Regular Slotted Container (RSC)? Enlist types of RSC. Draw	07	
Ľ	()	and explain different types of Dividers, Liner, Pad and Support Block		
		available in corrugated boxes.		
	(b)	Explain flexographic printing and rotogravure printing with diagram.	07	
Q.5	(a)	Explain scrap-less thermoforming process with neat diagram along with its	07	
		advantages and applications.		
	(b)	Explain Dart Impact testing of plastic packaging film with neat diagram.	07	
		OR		
Q.5	(a)	Explain in details co-efficient of friction of plastics films used in	07	
		packaging.		
	(b)	Explain in details the Life cycle assessment of plastics films used in	07	
		packaging.		
