Subj	ect co	<i>GUJARAT TECHNOLOGICAL UNIVERSITY</i> B. E SEMESTER – VII • EXAMINATION – WINTER 2012 ode: 171401 Date: 26/12/2012	
Subject Name: Food Packaging Technology			
Time	e: 10.3	30 am - 01.00 pm Total Marks: 70	
Instructions:			
1. Attempt any five questions.			
		Iake suitable assumptions wherever necessary. 'igures to the right indicate full marks.	
		-9	
Q.1	(a)	Answer in brief:	
		"Packaging is scientific and artistic segment of marketing." Explain?	04
	(b)	What are the problems associated wood as packaging material? "Packaging means value addition for all stake holders." For whom and How?	03
Q.2	(b) (a)	What are the requirements for an ideal package?	07 07
Q.2	(a) (b)	Compare glass, paper and aluminum as packaging material for liquid food products	07
	(0)	in terms of compatibility, cost and environment friendliness.	07
	OR	in terms of comparising, cost and environment menanices.	
	(b)	List the information required to develop a good package.	07
Q.3	(a)	Write short notes on-	
		PET	04
		Grease proof paper	03
	(b)	Write anote on blister packaging. How it can be used in food packaging?	07
		OR	
Q.3	(a)	i. List basic types of metal plates used in food processing packaging.	03
-		ii. What are the things to be specified while placing the order for cans?	04
	(b)	Write a note on biodegradable packaging. What are its limitations?	07
Q.4	(a)	Suggest and justify suitable packaging materials for	07
		Crisp fat rich cookies	
	. .	Acidic fruit juices	- -
	(b)	Discuss possible hazards and suggest step by step suitable packaging material for a	07
		product having following characteristics:	
		Crispy, low moisture, high fat, well flavored, salty products OR	
Q.4	(a)	Suggest and justify suitable packaging materials for	07
Q.1	(u)	Freshly harvested litchi	07
		Ready to eat paranthas	
	(b)	Discuss possible hazards and suggest step by step suitable packaging material for	07
		dairy products.	
Q.5	(a)	Explain the different tests conducted for paper and paper board used for packaging.	07
	(b)	An aluminum foil lined cylinder (56cm diameter and 80cm high) is used to fill the	07
		bulk fruit powder (particle density 800 kg /m3) with a porosity of 34%. If in one	
		cylinder 10 kg extra powder is filled. Calculate the per cent increase or decrease in	
		the porosity.	
OR			07
Q.5	(a) (b)	Describe the components and working of Form Fill and Seal machine	07 07
	(b)	A CFB box has been designed for accommodating 5 kg apples with 30% porosity. If the same box is used to carry tomato with 50% porosity, find out how many	07
		more or less boxes will be required to carry 1200kg of tomatoes. If the true density	
		of the apple to tomato is 1.2.	
