FirstRanker.com Firstranker's choice B.Tech. Sixth Server FirstRanker 19851c) Tech. Www.FirstRanker.com 11124 : Elective-II : Packaging Technology : 6 FEPP 05

	Pages : ne : Th		AW - 3255 Max. Marks : 80			
	Note	 Answer Three question From Section "A" and Three question from Section "B". Due credit will be given to neatness and adequate dimensions. Diagrams and Chemicals equations should be given wherever necessary. Illustrate your answer necessary with the help of neat sketches. Discuss the reaction, mechanism wherever necessary. Use of pen Blue/Black ink/refill only for writing the answer book. 				
		SECTION - A				
1.	a)	What is the purpose & need of packaging?	7			
	b)	Explain in detail rigid packaging and give it's significance.	7			
		OR				
2.	a)	What do you mean by packaging? Explain in detail selection criteria of packaging 7 materials.				
	b)	What are the different types of packaging? 7				
3.	a)	How child resistance packaging is beneficial?	6			
	b)	State importance of reduce, reuse and recycle (3R), regarding waste management. 7				
		OR				
4.	a)	How new product development is done in packaging industry? Give few examples.	7			
	b)	Write in detail about life cycle assessment mode during selection of packaging material.	6			
5.		Explain basic package design approach in detail.	13			
		OR				
6.		Discuss chemical product characteristic like:- i) Effect of gases ii) Moisture. iii) Atmospheric gases.	13			
		SECTION - B				
7.	a)	Explain significance of absorption and diffusion of moisture while selecting material for packaging.	7			

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b) What is the effect of packaging material characteristics during severe First Ranker com 7 packaging?

OR

8.	a)	What is the importance of permeability and barrier properties during selection of packaging material?				
	b)	What is the effect of mechanical properties & molecular orientation of a packaging material?				
9.	a)	Explain different packaging material required for an ideal pack, give its selection criteria.				
	b)	How will you select a packaging material on the basis of odour & flavour? Give suitable examples.				
		OR				
10.	10. Give selection criteria and evaluation with examples for packaging material following:-				13	
		i) Tear strength	ii) iv)	Sensitivity to Microbes Material weight and package dimension.		
11.	a)	Give importance of Ecofriendly packagi	ng.		6	
	b)	Explain importance of Biodegradable packaging.			7	

OR

- a) Explain with examples the packaging used for packaging Mango, Rose flower, Banana, 6 Broccoli vegetable to export.
 - b) Explain in detail the working of bottle filling lines used during packaging.

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