2023

Food Packaging Technology

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

1.	a)	What is Food Packaging? Describes the various functions of food packaging.	5
	b)	Discuss about the various levels of food packaging. Give examples of each level.	5
	c)	Explain and draw the schematic diagram of steps involve in DRD technique used for making of two-piece tin can.	10
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2.	a)	Define Active Packaging System?	2
	b)	How the active scavenging system helps in improving the food quality and safety.	9
	c)	Write the mechanisms and reaction of oxygen, carbon dioxide and ethylene scavengers.	9
		ESTD.: 2006	
3.		Write short notes on any four (4) of the followings	5x4
	a)	Tin-can	5
	b)	Tin-free can	5
	c)	Bisphenol A	5
	d)	Antioxidant emitter	5
	e)	Polyethylene terephthalate (PET)	5
4.	(a)	What are biobased packaging materials. Give the advantages and	2+8
	, s	limitations of edible and biobased packaging materials.	
	b)	What is the main difference between edible films and edible sheets. Mention any five materials used for edible packaging and give the applications and functions of any three materials.	2+8

5.	a)	Name any four plastic materials commonly used for food packaging.	2+8
		Discuss about the four steps involved during the manufacture of plastic packages.	
	b)	Name three materials used for metal packaging and give three qualities of each metal packaging required for food packaging applications.	2+8
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6.	a)	List the raw material and different furnaces used for manufacturing of Glass.	5
	b)	Explain the various steps involve in manufacturing of Glass bottles by "Blow and Blow Process" by giving a schematic diagram.	10
	c)	Differentiate between thermoplastics and thermosetting plastics.	5
7.		Write the principle and mechanisms of any two of the following Indicators	10+10
	a)	Time-Temperature Indicators (TTI)	1/2
	b)	Freshness Indicators	
	(c)	Ageless-eye, an oxygen Indicator	

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