GURU NANAK INSTITUTE OF TECHNOLOGY

An Autonomous Institute under MAKAUT

2022

FOOD PACKAGING TECHNOLOGY

FT703A

TIME ALLOTTED: 3Hours **FULL MARKS:70**

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable

GROUP – A
(Multiple Choice Type Questions)

Answer any ***ten*** from the following, choosing the correct alternative of each question: **10×1=10**

		Marks	CO No
1. i)	Plastics are a) Compostable b) Non compostable c) Biodegradable d) none of these	1	CO4
ii)	DRD process is used for a) TFS made can b) Two-pieces can c) Three pieces can d) Paper	1	CO2
iii)	The packaging material used for packaging fats and oils is a) HDPE b) LLDPE c) Nylon d) PP	1	CO1
iv)	Bio-degradable film can be produced from a) LDPE b) Chitosan c) PP d) PVC	1	CO3
v)	What does FSS stand for? a) Food set and sound b) Food Secure and Safe c) Food Safety and Security d) Food sour and sign	1	CO4
vi)	Hydrapulper is used to produce which one of the following during paper manufacturing? a) Pulp b) Stock c) Sheet d) All of the above	1	CO4

vii)	The principle ingredient of glass is a) Calcium oxide b) Alumina c) Silica d) Potash Alumn	1	CO2
viii)	Biodegradable film can be produced from a) LDPE b) Chitosan c) PP d) PVC	1	CO3
ix)	Which of the following products can be vacuum-packed? a) Cookies b) Walnuts c) Crackers d) Milk	1	CO4
x)	According to CODEX standards, which of the following food items is hypersensitive? a) Cereals b) Nuts c) Milk Products d) All of the mentioned	1	CO3
xi)	When was Fruit Products Order (FPO) enacted? a) 1937 b) 1974 c) 1955 d) 1951	1	CO1
xii)	What is the full form of LDPE? a) Linear Low Density Polyethylene b) Linear Low Density Polystyrene c) Labeled Low Density Polyethylene d) None of the above	1	CO1

GROUP – B
(Short Answer Type Questions)

(Answer any *three* of the following) **3 x 5 = 15**

		Marks	CO No
2.	How would you choose a traditional packaging material for the packaging of semisolid food?	5	CO1
3.	What are the important factors for transportation of fruit & vegetable packages?	5	CO4
4.	What is the favor during Life Cycle Related Considerations of glass as a packaging material?	5	CO2

5.	What are Oxo-Biodegradable (OBD) Polymers?	5	CO3
6.	Discuss the lap seal and fin seal with the proper example	5	CO4

GROUP – C
(Long Answer Type Questions)

(Answer any *three* of the following) **3 x 15 = 45**

			Marks	CO No
7.	a.	Define primary, secondary, and tertiary packaging and their function with reference to a bakery product	5	CO1
	b.	What could be the potential application(s) of nano-polymer in food packaging?	5	CO1
	c.	What are the advantages of edible packaging material?	5	CO1
8.	a.	Comment on the advantages of using glass as a food-packaging material.	7	CO3
	b.	Briefly discuss the methods of forming process for manufacturing glass jars and bottles.	8	CO3
9.	a.	Discuss the role of oxygen scavenger in an active packaging system	5	CO4
	b.	What is modified atmosphere packaging (MAP)? Give potential example	5	CO4
	c.	What are the differences between modified atmosphere packaging & intelligent/smart packaging?	5	CO4
10.	a.	what are the factors against the reduction of packaging cost compared to the present economic scenario?	5	CO3
	b.	What are nanocomposite applications in food packaging?	5	CO3
	c.	Discuss the Hierarchy of Waste Proposal for plastic.	5	CO3
11.	a.	Comment on the advantages of using glass as a food-packaging material.	7	CO3
	b.	Briefly discuss the methods of forming process for manufacturing glass jars and bottles	8	CO3