

Reg.No. _____



Karunya UNIVERSITY

(Karunya Institute of Technology & Sciences)
(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

End Semester Examination – Nov/Dec – 2016

Code : 14FP3022

Sub. Name : Advances in Packaging and Handling of Foods

Semester : 2016-17 ODD

Duration : 3hrs

Max. marks : 100

ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.	a.	Write a brief note on the following tests performed in packaging material: WVTR	CO1	5
	b.	Tearing strength	CO1	5
	c.	Tensile strength	CO1	5
	d.	COBB	CO1	5
(OR)				
2.	a.	Discuss in detail about the various methods of vacuum packaging of foods with neat sketch of equipment.	CO3	15
	b.	Write note on ASLT.	CO1	5
3.	a.	Explain in detail about two piece can manufacture with neat sketch.	CO3	10
	b.	Discuss about double seaming operation in metal cans.	CO3	10
(OR)				
4.	a.	Enumerate in detail the manufacturing of paper and paperboard with neat sketch.	CO3	15
	b.	What is meant by parchment paper?	CO1	5
5.	a.	Explain in detail with diagram the various blow moulding techniques of plastic bottle manufacture.	CO1	20
(OR)				
6.	a.	Discuss in detail about the working principle of vertical form fill sealing machine with diagram.	CO3	20
7.	a.	Write notes on : Labelling	CO3	10
	b.	Retort Processing and packaging	CO3	10
(OR)				
8.	a.	Describe the significance of Oxygen scavenging, ethylene scavenging and Carbon dioxide scavenging in active packaging of food materials.	CO3	20
<u>Compulsory:</u>				
9.	a.	Describe about various traditional storage structure for grains with neat labeled diagram.	CO2	20

ALL THE BEST