

KERALA AGRICULTURAL UNIVERSITY

B.Tech.(Food Engg.) 2015 Admission VII Semester Final Examination-January-2019

Fdpr.4105

I

II

III

Food Packaging Technology (2+1)

Marks: 50 Time:2 hours

P.T.O

		Fill in the Blanks (10x1=10)
	1	Factors affecting the shelf life of a food product depends upon and factors.
	2	Specialized proteins calledcatalyze biochemical relations leading to the
•	2	deferioration of a food product.
	2	Information about the food product may be obtained from theof the
•		mackaged food.
	1	E is made by additionof ethylene gas in a high temperature and pressure
•	4~/	reactor.
	_	Packaging is a means of ensuringdelivery of food to the ultimate consumer in
	5 _/	sound condition at optimum cost
		State True or False
	_	A carton filled with jam bottles is an example of tertiary packaging.
	6	The total oxygen content is kept below 12% in packaging where chances of rancidity are there.
	7	Metal cans can preserve food up to six months.
	8	Gas permeability rate through plastic packaging material depends upon the surrounding
	9	- moratire
	. ^	Paperboard may be coated with plastic to increase its desired packaging properties.
]	10.	Рарспоситы
		Write Short notes on any FIVE of the following (5x2=10)
		Effect of water activity value on the shelf-life a food product.
	1	How oxidation affect the shelf-life of a food product?
	2	profits of using plastic as packaging material for food.
	3	Differentiate the Psychrotrophic and Psychrophilic micro-organisms affecting the shelf life
7	4	of food
	_	Use of aluminium in food packaging.
	5	Pole of packaging in brand competition.
	6/	Standard for testing shear test of the plastic packages.
	7	
		Answer any FIVE of the following. (5x4=20)
		1byologiand physico-chemical processes affect the shell life of a loog broduct?
	1	. 1 the modified atmospheric nackaging extends the shell life of a food blodder.
	2	finding the process of biodegrading of food product during storage and the major factors
	3.	11.1. for the h10de0T3d3H0H.
		the migration process of packaging materials to food with their advantages and
	4	Explain the inigration process to
		disadvantages. And dispersion of the disadvantages.

- What is the importance of testing of a food package. Explain the relevant test code for distribution performance testing.
- 6 Working principle of form fill seal machine.
- 7 Advantages and disadvantages of using glass as packaging material.

Answer any ONE of the following

IV

(1x10=10)

Explain the concept of REUSE, RCYCLE and DISPOSE with respect to the packaging materials used in food processing sector.

2 Explain the role of plastic in food packaging along with its advantages and disadvantages. Also explain the various types of plastics used in the food packaging along with the additives used to make it desirable in terms of strength, barrier properties and seal and printability.
