

Fdpr.4107

KERALA AGRICULTURAL UNIVERSITY B.Tech.(Food Engg.)2014 Admission VII Semester Final Examination-January-2018 Storage and Preservation Technology (1+1)

Marks:50

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		Time: 2 hours
I		Fill in the blanks: (10x1=10)
	1	Which of the following in non-fumigant pesticide?
		a Methyl bromide b Pyrethrin c Phosphine d Sulfuryl fluoride
	2	Which statement is correct?
-		
		Statement 1: Time is an important parameter for the growth of spoilage organisms.
		Statement 2: Temperature is an important parameter for the growth of spoilage organisms
		a 1 b 1 & 2 c 0 d 2
	3	During controlled atmospheric storage, composition of which of the following set of gases is
		controlled:
		$a O_2 + N_2 \qquad \qquad b CO_2 + N_2 \qquad c C_2H_4 + N_2 \qquad d CO_2 + O_2$
	4	Which chemical is used for controlling sprouting of onions in storage?
		a Maleic Hydrazide(MH) b Ethylene (C2H4) c Gibberellic Acid(GA) d All of these
	5	Vertical grain storage bins and silos with rapid grain transfer systems:
		a Provide an opportunity for automated fumigant application
		b Can not be legally fumigated
		c Can only utilize liquid fumigants
		d Can only be fumigated during July
	6	Amount of time a food can be stored and remain fresh:
		a Shelf life b Irradiation c Danger zone d Radura
	7	Which statement applies to pre-harvest preparation for storage in grain bins and elevators?
	-	a If an insect infestation is found, fumigate
		 Immediately, inspect grain if snow melts quickly from unheated roof.
		 c Bins and adjacent structures should be thoroughly clean
	8	
	0	Moisture content in dried vegetable is
	0	a 2% b 3% c 5% d 6%
	9	Anti-darkening treatment used on some fruits before drying
		a Sulfuring b Autoclaving c Salting d Blanching
	10	A type of food preservation technique that involves sealing food in sterilized, airtight
		containers:
		a Irradiating b Freezing c Drying d Canning
п		Write Short notes on ANY FIVE of the following (5x2=10)
1241	1	What are the major factors that cause food spoilage?
	2	Define fumigation
	3	What is Hapur bin?
	4	Write the importance of rodent proof food storage structures
	5	Define fruit ripening.
	6	Briefly describe about the use of modified atmosphere packing.
	7	What is LDPE?
		РТО

III Answer ANY FIVE of the following

- Briefly describe about warehouse for bulk storage of food grains
- 2 Describe the four major disadvantages of modified atmosphere storage of foods
- 3 Write four important properties of refrigerants?
- 4 Briefly describe about packing materials and properties in food storage.
- 5 Describe the concept of evaporative cooling for fruits and vegetables
- 6 What are the advantages of aluminium packing?
- 7 Describe direct and indirect actions of irradiation on stored foods.

IV Write an essay on ANY ONE of the following

- 1 Elaborate the bulk storage structure of silo with a schematic diagram.
- 2. Elaborate the modified atmosphere packing for processed foods

(5x4=20)

(1x10=10)