MFT-009

No. of Printed Pages : 3

POST GRADUATE DIPLOMA IN FOOD SCIENCE AND TECHNOLOGY (PGDFT) Term-End Examination June, 2013 MFT-009 : FRUIT AND VEGETABLE					
Time : 3 hours TECHNOLOGY Maximum Marks : 70					
Note : Answer any five questions. All questions carry equal marks.					
1.	Fill i	n the blanks in the followings :			
	(a)		2		
	(b)	and are the most important factors that affect shelf life of stored horticultural produce.	2		
	(c)	, a natural harmone produced by some fruits as they	2		
	(d)	are the primary substrate for respiration.	1		
	(e)	At the time of fruit ripening loss of is accompanied by the biosynthesis of	2		
	(f)	Vitamin C is chemically called	1		
	(g)	Red colour of tomato is due to	1		
	(h)	Colour in straberry is due to	1		
	(i)	Jelly properly set at pH.	1		
	(j)	Fruits and vegetables are perishable due to content.	1		

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2.	Ans	swer the followings :	4x3½=14			
	(a)	Why fruits and vegetables are called as				
		protective foods ?				
	(b)	How post harvest management of fruit	ts and			
		vegetables can generate employme	ent in			
		rural areas ?				
	(c)	What are the basic function	s of			
		packaging ?				
	(d)	Why we store fruits ? Describe	e the			
		advantages of refrigerated storage.				
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3.	I more a material for marts and					
	vege	etables. Explain any of the two.	4+5+5=14			
4.	(a)	Define the followings :				
т.	(a)	Define the followings : (i) Minimal processing	4x2=8			
		(ii) Canning process				
		(iii) Squash				
	(\mathbf{b})	(iv) Cordial				
	(b)	Write full form for the followings :	6x1=6			
		(i) GMP (ii) KMC				
		(ii) KMS				
		(iii) GAP				
		(iv) HACCP				
		(v) IQF				
		(vi) HTST				
5.	Writ	Write short notes on the followings : $4x3^{1/2}=14$				
	(a)	Fruit Jam	379/2-14			
	(b)	Fruit Jelly				
	(c)	Fruit Candy				

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(d) Pickle

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- 6. Answer the following in detail :
 - (a) Why low temperature preservation is preferred ? Enlist the different methods of low temperature preservation.

2x7 = 14

- (b) Define drying and dehydration. Describe the advantages of drying of foods.
- (a) Enlist the physical methods used for determination of maturity. Explain any of the two.
 - (b) Write TRUE or FALSE for the followings : 7x1=7
 - (i) Etheral is used for ripening of fruits.
 - (ii) Fruit and vegetable becomes more perishable after minimally processing than original.
 - (iii) Increase in maturity of pea the sugar increases but starch and protein decreases.
 - (iv) In red stage of tomato more than 90% of the fruit surface is red.
 - (v) Apple is harvested when fruit separate easily from the branch, retains firmness of pulp and taste desirable.
 - (vi) Banana is harvested when the ridges on the surface of the skin are angular only.
 - (vii) In citrus fruits, TSS : acid ratio is considered to be a good index for judging maturity.

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