POST GRADUATE DIPLOMA IN FOOD SCIENCE AND TECHNOLOGY (PGDFT)

Term-End Examination

December, 2016

MFT-009: FRUIT AND VEGETABLE TECHNOLOGY

Time: 3 hours

Maximum Marks: 70

Note: Answer any five questions. All questions carry equal marks.

1. (a) Define the following:

7x1 = 7

- (i) Disinfestation
- (ii) Ripening
- (iii) Pre-cooling
- (iv) Sorting
- (v) Respiration
- (vi) Canning
- (vii) Dehydration
- (b) Discuss health benefits of fruits and vegetables.
- 2. Write short notes on any four of the following:
 - (a) Controlled atmospheric storage. 4x3.5=14
 - (b) Vapour heat treatment
 - (c) Surface/wax coating
 - (d) Use of growth regulators in PHM of fruits and vegetables.
 - (e) Maturity index
 - (f) Post harvest diseases of fruits and vegetables.

3.	(a)	Enlist the various steps involved in handling of the harvested produce and explain any two of them.				
	(b)	Describe the role of storage temperature in harvested produce.	7			
4.	(a)	Classify the food based on pH or acidity.	7			
	(b)	Enlist the various types of fruit juices and beverages and explain any two of them.	7			
5.	(a)	Describe aseptic processing and packaging in brief.	7			
	(b)	Describe pre-drying treatments.	7			
		e.				
6.	(a)	Describe marketing functions.	7			
	(b)	Define Marketing Information System (MIS) and enlist the agencies providing market information.	7			
7.	Diff	erentiate between the following :	14			
	(a)	Glazed and crystallized fruit				
	(b)	Pasteurization and sterilization				
	(c)	Jam and jelly				
	(d)	Modified atmospheric and controlled atmospheric storage				
	(e)	Drying and dehydration				
	(f)	Maturity and ripening				
	(g)	Preserve and candy				

8.	(a)	Writ	e full form	of	the	following	ng		
	` ,	abbreviations: 7x1=7							
		(i)	VHT						
		(ii)	HWT						
		(iii)	RTS						
		(iv)	PFA				•		
		(v)	GMP						
		(vi)							
		(vii)	UHT						
	(b)	Fill in the blanks: $7x1=7$							
		(i)	India is the _]	producer	of		
			fruits and vege China.	tables	in the	world af	ter		
		(ii)							
			fruits and ve	getab	oles i	s called	as		
		(iii)	Vitamin C is highly essential for keeping blood vessels in good condition and for the prevention of						
		(iv)	Papaya fruits	are	rich	in Vitam	in		
		(v)	Anti oxidants vegetables hel						
		(vi)	Molecules hydrogen and used as sour	oxyg	en an	d primar	ily		
		(vii)	present in the	cells c		ng matte ues of fru			