D/3rd/DFET301

Total number of printed pages:2

2021

## INTRODUCTION TO FOOD PROCESSING AND PRESERVATION TECHNOLOGY

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

		tione:	5
Q.1 a.) Mat	ch the following with correct cor		
1.)	Enzyme	a.)Vitamin	
	Roentgen	b.)Protein	
	Cellulose	c.)Mineral	
	Manganese	d.)Irradiation	
4.)	Manganese	e.)Carbohydrate	
5.)	Niacin	e.)Carbonydrate	
1 b) W	rite True or False:		5
4.00.7			
i.)	Fructose is a disaccharide.		
ii.)	Albumin is a water-insoluble pr	rotein.	
iii.)	Lycine is an essential amino ac	id.	
iv.)	Potato is a semi-perishable foo	d.	even
v.)	Some foods stored in frozen co	ndition have a shelf-life of months or	CVCII
	years.		
			5
1.c.) Fill	in the blanks:		
	Et a should like filaments and	bearing as cottony growth on the sur	face of
i.)	a I Investor ac		
	foods are known as	lace when exposed to high temperatu	res.
ii.)	Denaturation of takes place when exposed to high temperatures.  An intrinsic factor effecting the growth and activity of micro-organisms is		
iii.)	An intrinsic factor effecting to	ie Brottin and	
iv.)	An extrinsic factor effecting	the growth and activity of micro-or	ganisms
v.)	is one of the most i	adiation resistant micro-organisms.	

## 1.d.) Choose the correct answer or option:

i.)	Gelatinization is a property of : Proteins/Vitamins/Fats/Starch
ii )	Biological catalysts are: Carbohydrates/ Fats/Cellulose/Proteins

- iii.) Caramelization is a property of : Fats/Sugars/Proteins/Vitamin
- iv.) Rancidity is a phenomenon of: Fats /Sugars/Vitamins/Minerals
- v.) The Vitamin which is generally known for providing a good vision is:

Vitamin B1 /Vitamin A /Vitamin C / Vitamin D	
<ul> <li>2.</li> <li>a.) Classify proteins on the basis of their functional role in biological systems.</li> <li>b.) Mention any 3 points of functions/uses of Fats in foods.</li> <li>c.) Write a note on Rancidity. 3</li> <li>d.) Mention 5 benefits of low temperature preservation of foods.</li> </ul>	5 5 7
<ul><li>3.</li><li>a.) What is the mechanism of action of Radiations?</li><li>b.) What are the factors on which the bactericidal efficiency of a given dose of irradiation depends on?</li><li>c.) Explain any 2(two) types of irradiation treatment given to foods with example</li></ul>	4 4 es of
foods. d.) What are the types of Foods on the basis of their stability or perishability? Estimate by giving examples of foods for each category.	xplain 7
<ul> <li>4. a.) Explain how Microbial Spoilage takes place in Meat, Fish and Poultry OR products. Give names of at least 2 micro-organisms that grow on them.</li> <li>b.) What is Fermentation of foods? Give examples of some Fermented foods.</li> <li>c.) Write 2 properties each for sugar, starches and pectins.</li> </ul>	Dairy 10 4 (3= 6
ii.) spices in foods iii.) oils in foods.  b) Write the names functions (what it does), sources (where they are found) and	2+2=8 x3= 12
b.) What are the major causes of Food Spoilage? Explain any 3 causes in detail	x3= 12 s. 8
7. Write a detailed note on the hygienic aspects in food handling and processin	g. 20

