No.	of Pri	nted Pages : 5 MVP-001							
POST GRADUATE DIPLOMA IN FOOD SAFE AND QUALITY MANAGEMENT									
00861		~ Term-End Examination							
08	June, 2010								
0	MVP-001 : FOOD FUNDAMENTALS AND CHEMISTRY								
Time	e : 3 h	ours Maximum Marks : 100							
Note		ttempt any five questions. All the questions carry qual marks.							
1.	Fill i	n the blanks in the following : $10x2=20$							
	(a)	Two essential amino acids lacking in legumes							
		are and							
	(b)	Removal of husk or shell is called							
		while various preservation and							
		Flavouring processes, especially of meat or							
		fish by the addition of salt sugar and nitrate							
		is called							
	(c)	Organ meat/variety meat or all edible							
		portion other than muscles is called							
		while cut of meat taken from							
		sides, belly or back of a pig that has been'							
		cured, smoked or both is called							
	(d)	is the organism used in the							
		manufacturing of acidophilus milk while the							
		presence or absence of indicate							
		the microbial quality of water.							

1

	(e)	source while sodium alginate is a						
	(£)	gum. Milk is an example of		amulaian				
	(f)	while butter is ty						
	(g)	Lipid containing carbohydrate is called while phospholipid contain						
	(h)	Acid value measures the	<u> </u>					
		formed during decompositi while peroxide value indic of a fat/oil.	-	•				
	(i)	Generally the common salt is						
		while		element				
		(mineral) is added to infant food.						
	(j)	Vitamin controlling the blood clotting is						
		enhances the absorption of a body.						
2.	Mate	h the correct word given unc	der C	olumn B				
		statement given under Colun						
		Column A		Column B				
	(a)	Deficiency of	(i)	Emulsifier				
		cyanocobalamine cause						
		this disease						
	(b)	This vitamin can be	(ii)	Nitrite				
		synthesized by human babies						
	(c)	Lack of vitamin D cause this defect	(iii)	Bixaorellana				

MVP-001

2

(d)	It is used for its	(iv)	Tocopherol
	antimicrobial effect	()	Vite sets D
(e)	It is present in chlorophyll	(v)	Vitamin D
(f)	Vitamin essential for RBc maturation	(vi)	Anthocyanine
(g)	Is a natural antioxidant	(vii)	Sulphur
(h)	Annatto colour is derived	(viii)	Pernicious
	from it		anaemia
(i)	Preservative for meat	(ix)	Magnesium
(j)	Lecithin is used as	(x)	Vitamin K
	in food industry		
(k)	imparts red colour	(xi)	Scurvy
	to strawberries		
(1)	Disease caused due to	(xii)	Folic acid
	deficiency of Vitamin C		
(m)	Used as a dough improver	(xiii)	Potassium
			iodite
(n)	Vitamins and minerals	(xiv)	Tartaric acid
(0)	Natural acidulent of grapes	(xv)	Rickets
(p)	Non caloric natural sweetness	(xvi)	Betalaim
(q)	Import red colour to beet	(xvii)	Erythrosine
	Root		
(r)	Carotenoid present in	(xviii)) Lycopene
	Tomato		
(s)	Synthetic Food Colour	(xix)	Rebiana
(t)	It controls blood clotting	(xx)	Protective Food
MVP-001	3		

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(a)	Write	e short notes on the following : 5x2	=10			
	(i)	Aseptic packaging				
	(ii)	Aerobic treatment of liquid waste				
	(iii)	Rancidity				
	(iv)	Sensory evaluation				
	(v)	Food Fortification				
(b)	Define the following in 1-2 lines each : 10x1=10					
	(i)	МАР				
	(ii)	Bar code				
	(iii)	Floatation process during ETP				
	(iv)	Refractometer				
	(v)	Coefficient of viscosity				
	(vi)	Non-Nutritive sweetener				
	(vii)	GRAS				
	(viii)	Enrichment				
	(ix)	Cuisine				
	(x)	Organic Food				
	_	· · · · · · · · · · · · · · · · · · ·				
(a)	Describe the processing of oil seeds. 5					
(b)	· ·					
		of natural and synthetic antioxidents.				
(c)		h are the different methods of ability sampling	5			
(d)	Ũ	light different applications of sensory ation.	5			

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4.

MVP-001 4 P.T.O.

5x4=20 Write short notes on the following : 5. Cryogenic freezing (a) Thin layer chromato graphy (b) Effect of processing on minerals (c) (d) Shell Egg Processing Processing of coffee (e) Explain in detail the composition of cereals. 10 6. (a) Mention the various chemical parameters (b) of water quality. Describe any one 5+5=10 parameter. 7. Discuss about different types of detectors (a) used in gas chromatography mention their 5+5=10 working principles. Describe in detail any two latest packaging (b) 10 technologies.

5