POST GRADUATE DIPLOMA IN FOOD SAFETY AND QUALITY MANAGEMENT (PGDFSQM)

Term-End Examination December, 2017

MVP-001 : FOOD FUNDAMENTALS AND CHEMISTRY

Time: 3 hours			Maximum Marks: 100	
Note:		(i)	Attempt any five questions.	
		(ii)	All questions carry equal marks.	
1.	(a)	Differentiate between: 2x5=10		
		(i)	Primary and Secondary processing	
		(ii)	Durable and perishable foods.	
		(iii)	Iodine number and peroxide value	
		(iv)	Fin fish and Shell fish (with examples)	
		(v)	Simple and conjugated proteins	
	(b)	Exp suga	lain Mutarotation and inversion of ar.	10
2.	(a)	What is the need of fortification in foods? In what ways can it be achieved?		6
	(b)	Describe importance of sample collection and considerations involved in this activity.		10
	(c)	Wha	at are operating characteristic curves?	4
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3.	(a)	Describe the scope and status of Indian Food Processing Industry.					
	(b)	Name three monitoring and regulatory agencies for food trade.					
	(c)	What are functional foods?					
	(d)	Explain pasteurization of milk.					
4.	(a)	How do nutrients differ from Nutraceuticals ?	6				
	(b)	Enlist steps to prevent contamination and 1 maintain poultry meat quality.					
	(c)	What is MAP?					
5.	(a)	Describe various methods to preserve shell eggs.					
	(b)	Describe the physico chemical parameters to measure water quality.					
6.	Write in brief about the following two techniques:						
	(a)	LC - MS and GLC 5+5=1					
	(b)	Give the principle and procedure of fat estimation by Soxhlet and reducing sugar by Lane and Eynon method. 5+5:					
7.	(a)	In what ways by products from food industry are being utilized?					
	(b)	Describe secondary treatment for waste	10				