POST GRADUATE DIPLOMA IN FOOD SAFETY AND QUALITY MANAGEMENT (PGD FSQM)

Term-End Examination

June, 2011

MVP-001 : FOOD FUNDAMENTALS AND CHEMISTRY

Time: 3 hours

Maximum Marks: 100

Note: Attempt any five questions. All the questions carry equal marks.

1. (a) Give one word answer:

15x1=15

- (i) A combination of nutrition and pharmaceutical which has the potential for promoting health and preventing diseases.
- (ii) Foods prepared from plants or animals whose genome is altered through genetic engineering.
- (iii) The amino acid deficient in pulses.
- (iv) Name of one nonedible oil seed crop.
- (v) Name of vegetable oil rich in omega 3 fatty acid.
- (vi) The botanical name of tea is
- (vii) The example of nonstarchy polysaccharide.
- (viii) Name the chemical property of fat indicating its unsaturation.

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		,	used in butter and
		cheese.	
		(x) The compound	•
		flatulence factor	
		(xi) The name of cor	n protein.
		xii) The pigment pre	sent in meat.
		xiii) The antinutrition cottonseed.	nal factor present in
		xiv) The wiz solutio	on used in I, value
		estimation is a se	ource of
		xv) Sandwich of two	or more packaging
		material.	
	(b)	Nrite <i>full form</i> for the	following: $5x1=5$
		i) AAS	
		ii) PET	
		iii) EAN	
		iv) FFS	
		v) IQB	
2.	Defii	the terms :	4x5=20
	(a)	New Food Product De	velopment (NPD)
	(b)	Organic food	• ,
	(c)	Cottage cheese	
	(d)	Maillard Browning	
3.	(a)	llustrate the food chai	n. 7
	(b)	What is primary and s	econdary processing 8
		n cereals ?	• • • • • • • • • • • • • • • • • • •
	(c)	What are the functional	properties of eggs? 5
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4.	(a)	as a food legume?
	(b)	What are sausages? Give examples. 8
	(c)	What are the different methods of 7 preservation of eggs?
5.	(a)	What are Functional foods? 5
	(b)	What is Sorption Isotherm? Discuss its significance in food industry. 5+5=10
	(c)	Discuss the role of enzyme in brewing industry.
6.	(a)	What are antioxidants? Discuss their mode of action in food. 2+3=5
	(b)	What is the significance of ash content in foods? Discuss briefly dry and wet ashing.
	(c)	Define chromatography technique. Write the applications of gas chromatography. 4+4=8
7.	(a)	Comment on modified atmosphere 5 packaging.
	(b)	Explain five important properties of paper. 5
	(c)	What are the essential labelling 10 requirements on a food package under Indian laws?