POST GRADUATE DIPLOMA IN FOOD SAFETY 0223 AND QUALITY MANAGEMENT (PGDFSQM)

Term-End Examination

June, 2013

MVP-001 : FOOD FUNDAMENTALS AND CHEMISTRY

Time : 3 hours

Maximum Marks : 100

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

- 1. (a) Give one word answer for the following : 1x7=7
 - (i) Food processed and produced in the natural way without the use of pesticides or artificial inputs.
 - Active derivatives extracted from (ii) plants exhibits diversified physiological and pharmalogical effects.
 - The phenomenon responsible for the (iii) staling of bread.
 - (iv) The property of fat indicating its molecular weight.
 - (v)The pH at which proteins have no change.

MVP-001

- (vi) Sandwhich of two or more packaging materials.
- (vii) The ratio of moisture content of the product and the relative humidity of air surrounding it.
- (b) Answer the following. 8x1=8
 - (i) Name one amino acid deficit in pulses.
 - (ii) Name one natural antioxidint present in vegetable oils.
 - (iii) What is the botanical name of cocoa plant ?
 - (iv) Name one colourant present in turmeric.
 - (v) Name the sugar present in milk.
 - (vi) Write the name of wheat protein.
 - (vii) Give the name of pigment-present in tomato.
 - (viii) Name the antimicrobial factor present in soyabean.
- (c) Write full form for the following : 5x1=5
 - (i) IMF (ii) PET
 - (iii) IQB (iv) AAS
 - (v) EPS

MVP-001

5=20	2. Write short notes on the following : $4x$
	(a) Functional foods and health foods
	(b) Food safety and Food Security
	(c) HACCP
	(d) Tofu and Muesli
10	 (a) Describe the National food Processing Policy.
5	(b) Mention anti-nutritional factors present in pulses.
5	(c) Discuss the popular cured meat products.
5	4. (a) Which are the by products of milk ?
5	(b) How the fish and shellfish get deteriorated ?
5	(c) How does wheat grass and alfalfa improve health ?
5	(d) What do you understand by water activity of food ?
4+3	 (a) Define immobilized enzymes and give three examples of their application in food industry.
2+6	(b) What is rancidity ? Discuss its types and measures to prevent the rancidity.
5	(c) Write the principle and significance of moisture estimation by distillation method.
	 (d) What do you understand by water activity of food ? 5. (a) Define immobilized enzymes and give three examples of their application in food industry. (b) What is rancidity ? Discuss its types and measures to prevent the rancidity. (c) Write the principle and significance of

MVP-001

P.T.O.

6.	(a)	Discuss the objectives and characteristic features of HPLC.	3+5
	(b)	What is sensory evaluation of food ? Discuss the criteria to be considered for selection of panelists.	3+4
	(c)	Mention the importance of blanching in food industry.	5
7.	(a)	What is cryogenic freezing ?	5
	(b)	Indicate five important advantages of CFB boxes.	5
	(c)	List out the general principles of waste reduction, recycling and efficient processing for the food industry.	10