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

Term-End Examination

June, 2020

MVP-001 : FOOD FUNDAMENTALS AND CHEMISTRY

Time : 3 Hours

Maximum Marks : 100

Note: (i) Answer any five questions.

(ii) All questions carry equal marks.

1. Explain the following :

(a) Major functions of Food.

(b) Components of food and functions of any *two* components.
12

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2. (a) Which are the food commodities of animal origin recognized by FAO? 5 (b) What are the criteria used to measure the quality of egg? 5 Give the flow diagram for pasteurization of milk. 8 (a) 'Water is called wonder liquid.' Explain

- 3. with appropriate examples and correlate with its unique structure. 10
 - (b) What are Polysaccharides ? List out their applications in food. 4 + 6
- 4. (a) Give the physiological functions of five Bcomplex vitamins. 10
 - List out *five* toxic metals. Give their source (b) and symptoms. 10

Explain the following : 5. (a) 5 each

(i) Importance of sample collection.

(c)

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(ii) Factors affecting choice of sampling plan.

(iii) Probability Sampling.

- (b) How much quantity of sample (composite/ bulk) is required to be sampled from lots ?
 - (i) Potatoes

(ii) Maize

(iii) Oil seeds .

(iv) Apple

(v) Tomatoes

6. Explain the following :

5 each

5

(a) Kjeldahl's method

- (b) Lane and Eynon volumetric method
- (c) Acid value and free fatty acids
- (d) Ash estimation

4

- 7. (a) Explain the *four* basic methods of processing foods.
 10
 - (b) Give the important roles/objectives playedby packaging and package labelling. 10
- 8. Explain the following : 5 each
 - (a) Edible Packaging
 - (b) Minimal processing of foods
 - (c) Cryogenic freezing
 - (d) Intelligent packaging techniques

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