## CERTIFICATE PROGRAMME IN FOOD SAFETY

## Term-End Examination December, 2012

## **BFN-001: INTRODUCTION TO FOOD SAFETY**

Time: 3 Hours		lours Maximum Marks :	Maximum Marks : 100	
Not		ttempt five questions in all. Question No- ompulsory. All questions carry equal marks.	<b>1</b> is	
1.	(a)	List any five hazardous microorganisms and/or parasites along with their commonly implicated foods.	10	
	(b)	Explain the following in 2-3 sentences only.  (i) Risk Analysis  (ii) Avian Influenza  (iii) Aseptic Packaging  (iv) Danger Zone  (v) Minimal Processing	10	
2.	(a)	Differentiate between food risk, food toxicity and food hazard.	5	
	(b)	Briefly discuss the need and role of food safety and sanitation in the food industry.	6	
	(c)	What is safe food? Explain the importance of safe food.	2+7	

3. List the hazards associated with food, giving (a) 10 appropriate examples. (b) Discuss prions and viruses as the emerging 5 pathogens of concerns. (c) Enlist the features of organic and genetically 5 modified foods. 4. Enlist the causes of food spoilage illustrating (a) 6 the causes diagramatically. (b) Mention the type of spoilage and the 8 microorganism involved with the following food: Bread Fresh meat Eggs Evaporated milk (c) Explain the effect of processing on the 6 nutritive quality of food. 5. What is food preservation? Highlight the importance, basic principles and the various methods available for food preservation. 2+2+2+14 6. (a) What tips would you give for the storage of 10 the following food items? (i) Meats (ii) Dairy products (iii) Fruits and vegetables

(iv)

Poultry and Eggs

- (b) How would you limit bacterial growth by 10 adopting a time - temperature control process, while preparing, cooking and holding food? List the cleaning agents and the sanitizers (a) 5
- 7. vou can use in the food industry.
  - (b) What protocol would you use as a food 5 service manager to ensure employees hygiene practices.
  - 5 Differentiate between the physical and (c)chemical methods of pest control, giving appropriate examples?
  - (d) Enlist the modern methods of waste 5 disposal. Explain any one method briefly.
- 8. Write short notes on any four of the following:

5+5+5+5

- Sources of microbial contamination within (a) the human body
- (b) Types of cleaning agents
- Effects of temperature on bacteria (c)
- (d) Different types of storage
- Concept of minimal processing (e)