CERTIFICATE PROGRAMME IN FOOD SAFETY

00433

Term-End Examination

December, 2017

BFN-002: HAZARDS TO FOOD SAFETY

Time	: 3	hours	Maximum Marks :	100
Note	:	(i) (ii) (iii)	Attempt five questions in all. Q No. 1 is compulsory. All parts of a question must be attempted.	
			together.	
1.	(a)	(i) (ii) (iv) (v) (vii) (viii) (ix) (xi) (xii) (xiv)	one example for each of the following: Spore former Mycotoxin Biogenic amine Pesticide Residue Causative organism of Mad Cow Disease Osmophilic Yeast Food borne virus Gram negative rod Physical hazard Sea food toxin Pathogenic protozoan Plant toxicant Antinutritional factor Food color Antioxidant	15
	(b)	List the with	he various chemical hazards associated food.	5

2.	(a) What are the factors responsible to emergence of new food borne pathogonal transfer of the control of the c		10		
	(b)	List the names of ten emerging pathogens of concern.	10		
3.	(a)	Differentiate between Food Infection and Food Intoxication giving suitable examples.	10		
	(b)	Explain how water acts as a source of contamination and leads to a food borne disease outbreak.	10		
4.	Give the significance of any four of the following in relation to food safety: 5+5+5+				
	(a)	Shell Fish Poisoning			
	(b)	Heavy metals			
	(c)	VDR's			
	(d)	HACCP			
	(e)	Enterotoxins			
5.	(a)	What is Food Adulteration?	5		
	(b)	List the common adulterants associated with food.	8		
	(c)	What are the methods to detect common adulterants in milk?	7		
6.	(a)	What are virus and food associated viruses?	8		
	(b)	Describe the various factors affecting the bacterial growth.	12		

- 7. Write short notes on any four of the following:
 - (a) Mycotoxins

5+5+5+5

- (b) Sources of food contamination
- (c) Salmonellosis
- (d) Parasites in food
- (e) Dioxins
- (f) Intentional Food Additives