CERTIFICATE PROGRAMME IN FOOD SAFETY

Term-End Examination June, 2017

BFN-002: HAZARDS TO FOOD SAFETY

(ii) Q. No. 1 is compulsory. (iii) All parts of a question must be attempted together. 1. (a) Give an example for each of the following: (i) Food borne virus (ii) Osmophilic yeast (iii) Mycotoxin (iv) Sea food toxin (v) Food color (vi) Anti oxidant (vii) Gram Positive cocci (viii) Causative organism of Mad Cow Disease (ix) Pathogenic protozoan (x) Mesophilic micro-organism	
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Disease (ix) Pathogenic protozoan	
(x) Wesophine mero organism	
(b) Differentiate between Food Infection and Food Intoxication giving two examples of each.	10
2. (a) Draw a bacterial growth curve and explain the various phase of growth of micro organisms.	10

	(b)	Explain the four most critical factors which affect the microbial growth	10
3.	(a)	What are the various types of hazards associated with food?	10
	(b)	Describe the various types of micro organisms associated with food as microbial hazards.	10
4.	food (a) (b)	the significance of following in relation to safety: Sea Food Toxins Pesticide Residues Heavy Metals Food Additives	+5+5
5.	(a) (b) (c)	What is a Food contaminant? What are the various sources of Food contamination? What are the intentionally added food adulterants? List the method of their detection in milk.	3 7 10
6.	(a)	What are Water and Food associated viruses? How are they transmitted?	10
	(b)	What is the mode of transmission, symptoms and preventive measures of Shigellosis?	10
7.	Write (a) (b) (c) (d) (e) (f)	e short notes on any four of the following: Salmonellosis Emerging food borne pathogens Food Additives Mycotoxicosis Anti nutritional factors in plants Enterotoxins	-5+5