

**CERTIFICATE PROGRAMME IN FOOD
SAFETY**

Term-End Examination

June, 2017

00465

BFN-001 : INTRODUCTION TO FOOD SAFETY

Time : 3 hours

Maximum Marks : 100

- Note :*
- (i) *Attempt five questions in all.*
 - (ii) *Question No. 1 is compulsory.*
 - (iii) *All parts of the question should be attempted together.*

1. Define the following (attempt any ten) : 2x10
- (a) Mycotoxins
 - (b) Water activity
 - (c) Food Additive
 - (d) Sanitation
 - (e) Veterinary Drug Residues
 - (f) Danger Zone
 - (g) Sequestrant
 - (h) Contaminant
 - (i) Risk Analysis
 - (j) Food Spoilage
 - (k) Hazards
 - (l) Critical Control Point
 - (m) Iodophor

2. (a) Differentiate between Biological and Chemical hazards giving examples. 10
- (b) State the significance of following with regards to Food Safety. $2\frac{1}{2}+2\frac{1}{2}+2\frac{1}{2}+2\frac{1}{2}$
- (i) Pesticide Residues
- (ii) Seafood toxins
- (iii) Plant toxicants
- (iv) High Temperature Short Time Treatment (HTST)
3. (a) List the common adulterants found in foods. 5
- (b) What are the methods used for the detection of any four common food adulterants? 8
- (c) What are the factors responsible for the emergence of new food borne pathogens? 7
4. (a) What is the role of cleaning compounds and sanitizers in food industry? Explain giving examples. 10
- (b) What are the various sources of food contamination? 10
5. (a) Give the foods implicated and spoiled by the following organisms. $2+2+2+2+2$
- (i) Clostridium botulinum
- (ii) Salmonella typhi
- (iii) Bacillus cereus
- (iv) E.Coli
- (v) Trichinella Spiralis
- (b) "Seafood is a source of harmful metals in the food chain". Justify the statement giving examples. 10

6. State the role of the following in food safety :
- (a) Hurdle Technology 5+5+5+5
 - (b) Organic foods
 - (c) Genetically modified foods
 - (d) Avian Influenza
7. Write short notes on **any four** of the following :
- (a) Pest Control 5+5+5+5
 - (b) Measures for Safe Disposal of waste
 - (c) Good Hygiene Practices
 - (d) Sources of microbial contamination within the human body
 - (e) Food Laws
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