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BFN-002

Total No. of Questions : 7]

[Total No. of Printed Pages : 3

Certificate Programme in Food Safety
Term-End Examination
June, 2014

BFN-002 : HAZARDS TO FOOD SAFETY

Time : 3 Hours]

[Maximum Marks : 100

Note :-Attempt *Five* questions in all. Question No. 1 is compulsory.
All questions carry equal marks.

1. Give *one* example for each of the following : 2x10
- (i) Causative organism of Ergot
 - (ii) Aerobic spore former
 - (iii) Toxic amino acid in Kesari dal
 - (iv) Gram negative pathogenic rod
 - (v) Emerging protozoan of concern
 - (vi) Aflatoxin Producer
 - (vii) Toxic alkaloid in potato
 - (viii) Food borne virus
 - (ix) Emulsifying agent
 - (x) Antioxidant used in foods
2. (i) Differentiate between the following : 10
- (a) Food Infection Vs Food Intoxication
 - (b) Anticaking agents Vs Emulsifiers

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Turn Over

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(2)

(c) Physical Hazard Vs Chemical Hazard

(d) Thermophilic organisms Vs Mesophilic organisms

(ii) What are the factors which affect the microbial growth? Explain briefly. 10

3. Discuss the significance of the following with respect to food safety : 4x5

(a) GRAS status

(b) Veterinary Drug residues

(c) Mycotoxins

(d) Heavy metals

4. (i) List the common adulterants found in foods. Give the methods of detection for any *four* adulterants in foods. 2+8

(ii) What are the different types of biological hazards associated with foods? Explain with examples. 10

5. Describe the causative agent, mode of entry, symptoms and preventive measures of any *two* of the following diseases : 2x10

(i) Listeriosis

(ii) Hepatitis A

(iii) Campylobacteriosis

(iv) Salmonellosis

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(3)

6. (i) What are Food Additives ? Explain their role in extending the shelf life of a product. 10
- (ii) Elaborate on the harmful effects of Heavy metals ingested as food toxicants. 10
7. Write short notes on any *four* of the following : 4×5
- (i) Air/water activity and its role in spoilage
 - (ii) Natural toxicants
 - (iii) Emerging pathogens of concern
 - (iv) Pesticide residues
 - (v) Shellfish poisoning

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