No. of Printed Pages : 3

BFN-002

00691

CERTIFICATE PROGRAMME IN FOOD SAFETY

Term-End Examination

June, 2012

BFN-002 : HAZARDS TO FOOD SAFETY

Time : 3 hours *Maximum Marks : 100*

Note : *Answer **five** questions in all. Question No.1 is **compulsory**. All questions carry **equal** marks.*

1. Give two examples for each of the following. **2x10=20**

(a) Food borne viruses

(b) Mycotoxins

(c) Parasitic protozoan

(d) Gram negative pathogenic rods

(e) Spoilage Yeasts

(f) Antioxidants used in food

(g) Chemical hazards in food

(h) Permitted Food colours

(i) Anti-nutritional factors in food

(j) Natural Toxicants in animal foods

2. Give the importance on ***any Five*** of the following in food safety: **4+4+4+4+4=20**

(a) Sequestrants
(b) Food additives
(c) Water activity
(d) Acrylamide
(e) Aflatoxins
(f) Food viruses

3. (a) What is Food Adulteration ? Explain giving examples. **5**

(b) What are the common food adulterants ? Give a brief review. **8**

(c) What are the harmful effects of these adulterants ? **7**

4 (a) What are the various types of food borne pathogens ? Give examples. **10**

(b) List the route of contamination disease caused along with symptoms of two gram – ve rods (bacteria) commonly related to gastro-enteritis. **10**

5. (a) What are the various types of hazards associated with food ? Explain, giving examples. **10**

(b) "Biological hazards are the biggest threat to food safety". Justify this statement with appropriate examples. **10**

6. (a) What is a Food Additive ? 5

(b) What is the role of Food Additives ? 8

(c) Can food additives also act as contaminants ? Explain. 7

7. (a) What are the various naturally occurring toxicants in plant and animal foods ? Briefly elaborate on their effect on human health. 10

(b) What are the various types of contaminants and residues present in foods ? Describe how they enter the food chain and harm the body. 10

8. Write short notes on ***any Four*** of the following : 5+5+5+5

(a) Food Intoxications

(b) Emerging pathogens of concern

(c) PFA Act (1954)

(d) Heavy Metals in Foods

(e) Ergot Alkaloids-Role in food safety