

NATIONAL COUNCIL FOR HOTEL MANAGEMENT  
AND CATERING TECHNOLOGY, NOIDA  
**ACADEMIC YEAR – 2015-2016**

COURSE : 3<sup>rd</sup> Semester of 3-year B.Sc. in H&HA  
SUBJECT : Food Safety & Quality  
TIME ALLOWED : 02 Hours MAX. MARKS: 50

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(Marks allotted to each question are given in brackets)

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- Q.1. (a) What is a food label and its requirement?  
(b) List the hygiene control measures during the processing of food. (5+5=10)
- Q.2. Define the following terms (**any two**):  
(a) Risk analysis  
(b) 3E's of food safety  
(c) Food additives (2 ½ +2 ½=5)
- Q.3. Describe the role of international standards in meeting the emerging challenges of global food trade. (5)
- Q.4. How does consumer protection act protect the rights of the consumer?  
**OR**  
Describe the functions of colouring agents flavouring substances and leavening agents in food processing citing suitable examples. (5)
- Q.5. Explain the causes and symptoms of food infections of bacterial origin.  
**OR**  
Define fermentation and give examples of fermented foods. (5)
- Q.6. Explain growth curve of micro-organisms.  
**OR**  
Describe the morphological characteristics of different micro-organisms found in food. (5)

- Q.7. (a) Explain risk analysis with its components.  
(b) List points to improve the quality of risky street vended food.

(5)

Q.8. State True or False:

- (a) Cooking destroys vegetative cells and spores of pathogen.
- (b) Danger zone temperature ranges from 25°C – 40°C.
- (c) Anaerobes can grow in absence of free oxygen.
- (d) *Saccharomyces cerevisiae* is used for fermentation of bread dough.
- (e) The toxin produced by *Clostridium Botulinum* is one of the most toxic substances known.
- (f) Gelatin, a food additive is an antioxidant.
- (g) Alcoholic beverages are adulterated with methanol and mineral oil.
- (h) Appearance of bluish black colour on addition of iodine solution to milk indicates that the sample is pure.
- (i) Food Safety and Standards Act, 2006 has replaced PFA Act, 1954.
- (j) The GM foods do not pose any potential risks to human health or for the environment.

(10x1=10)

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