2015

M.Sc. Part–I Examination

DIETETICS AND COMMUNITY NUTRITION MANAGEMENT

PAPER—III (Unit–6)

Full Marks : 50

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer *Question No. 1* and any *four* from the rest.

1. Answer any *five* of the following : 5×2

(a) Name two mycotoxins that commonly contaminates foods.

(b) Name two additives commonly used in sweets.

(c) What are pasteurization ?

(d) Enumerate two investigating tools for the detection of food borne disease outbreak.

(e) Write two methods for preventing food contamination.

(f) What is meant by selective media ?

(g) Name two common phycotoxins.

(h) What is shellfish poisoning ?

2. What is Fermentation ? Describe the upstream and downstream processes of fermentation. 2+4+4

3. (a) What are the common causes of food borne diseases ?

(b) What are the source of Salmonella species mediated food borne disease and write down the mode of action of the causative agent. 4+(2+4)

4. (a) How does risk analysis relate to risk assessment ?

(b) What are the components of risk assessment ? Explain each of these components. 3+7

5. How can Food safety be enhanced ? What is meant by food intolerance ? Give a brief overview on Nutrient-drug interaction. 4+2+4

6. (a) What are biogenic amines and what is its importance in food ?

(b) Name three fungi species that are responsible for producing mycotoxins.

(c) How mycotoxins are different from bacterial toxins and the diseases produced by mycotoxin. 3+3+4

7. Draw and explain a normal bacterial growth curve. Enumerate the intrinsic and extrinsic factors of growth. 5+5

8. How are bacteria linked to vaccine delivery ? Explain the methods by which food borne illness can be prevented. 3+7

9. What are the different types of toxicities that can be caused by a contaminated food? Explain each type in relation to the dose response curve.

4+6

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