

M.Sc. Part-I Examination, 2013

**DIETETICS AND COMMUNITY
NUTRITION MANAGEMENT**

PAPER – III (Unit-6)

Full Marks : 50

Time : 2 hours

*The figures in the right hand margin indicate marks
Candidates are required to give their answers in their
own words as far as practicable*

Illustrate the answers wherever necessary

Answer Q.No. 1 and any four from the rest

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

(a) What is LD₅₀?

(b) Write the name of two mycotoxins.

(c) Write the name of two diseases caused by
contamination of water.

(Turn Over)

- (d) What is psychrophiles ?
- (e) Write the name of two media for microbial growth.
- (f) What is freeze-dryer ?
- (g) Write the name of two bigenic amines.
- (h) What is HACCP ?
2. (a) State the toxicological hazards of improper cooked meat.
- (b) What is aflatoxin ? How aflatoxin causes severe health hazards in human ?
- (c) How you will identify poisonous mushrooms ? $3 + (2 + 3) + 2$
3. (a) Describe intrinsic factors affecting the growth and survival of microbes.
- (b) State any two public health hazards due to intake of contaminated foods. $5 + \left(2\frac{1}{2} + 2\frac{1}{2} \right)$

4. (a) What is the mechanism of co-agglum formation in Yoghurt.
- (b) 'Idle—may be considered as therapeutic diet'— ellaborate.
- (c) Write the process of chemical method for selection of bacteria during culture. $4 + 3 + 3$
5. (a) Mention the health hazards of sodium benzoate consumption through food.
- (b) Write briefly about DSP and ASP. $4 + (3 + 3)$
6. (a) What do you mean by cross contamination of food ?
- (b) How do you avoid cross contamination of food in kitchen and during storage of food in refrigerator ?
- (c) What types of precautionary measurements should be adopted for a pregnant mother from the angle of food safety ? $2 + (2 + 2) + 4$

(4)

7. (a) What is 'pea-soup' stool ?
(b) How this type of stool is formed ?
(c) How do you control the disease with the symptom of 'pea-soup' stool ?
(d) Mention fecal oral cycle' of any food borne pathogen. $2 + 2 + 4 + 2$
8. (a) How HCN is released from plant ?
(b) Describe about embryo-lethal and teratogenic effect of BAPN.
(c) Mention the health hazards of azinomoto. $2 + 5 + 3$
9. (a) What do you mean by 'Food Biotechnology' ?
(b) Discuss the steps adopted in transgenic food production in general.
(c) "Genetically engineered plant helps food fortification"—Justify. $2 + 5 + 3$