

M.Sc.

2011

4th Semester Examination

NUTRITION & DIETETICS

PAPER—XIX

Full Marks : 40

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.

[Food Processing & Technology]

Module—I

1. Answer any five questions of the following : 1×5
- (a) Write the full form of EMC.
 - (b) Define food security.
 - (c) What are food adulteratives ?
 - (d) Write the names of any two flavouring agents.
 - (e) Write the names of any two chemical preservatives.

(Turn Over)

- (f) Write the names of any two food decaying microbes.
- (g) Write any two demerits of surface dehydration.
- (h) What do you mean by food safety?
2. (a) State the different types of freezing in connection with food preservation.
- (b) Discuss the mechanism of food preservation by refrigeration.
- (c) Explain the co-current, counter current and mixed-current process of cooling to preserve food.

2+3+3

Or

- (a) Discuss the fundamental basis of food preservation by chemical substances including sugar and salt.
- (b) How sun drying can preserve food.
- (c) What do you mean by osmotic dehydration process?
3. (a) How bio-chemical reactions noted in fruits results alteration in taste of the fruit.
- (b) Discuss the different steps adopted for bio-safety of milk from the collection step to distribution step.

4+2+2

3+4

Or

- (a) Write the chemical substances used to increase the taste of the food.
- (b) How food safety is affected by chemical agents used for food processing and preservation.
- (c) Write the process of flavour enhancement of cheese by enzyme treatment. 2+3+2

Module—II

4. Answer any five questions of the following : 1×5
- (a) Write the names of any two bio-medical waste.
- (b) Write the names of any two yeast fermented products used as food.
- (c) What do you mean mixed pulses ?
- (d) Write the nutritive value of leafy vegetables.
- (e) Why small fish is preferred for aged women than big fish ?
- (f) Write the names of any two disease related with poor sanitation.
- (g) What do you mean by vegetable waste ?
- (h) Why fermented food is helpful for our gut ?
5. (a) What do you mean by waste recycling ?
- (b) Discuss the treatment of waste water and its impact on health improvement. 2+(4+2)

Or

- (a) Write the nutritive value of egg.
- (b) Why egg is prefer as animal protein for pre-school children?
- (c) Write the importance of double-toned milk for aged individuals.

2+3+3

6. (a) Discuss the process of milk fermentation.
- (b) What precaution are generally adopted for milk fermentation?
- (c) Write the nutritive value of curd.

3+2+2

Or

- (a) What are the steps adopted for the improvement of food plant sanitation.
- (b) Write the impact of food plant sanitation on community health.

4+3