

2011

M.Sc.

3rd Semester Examination

NUTRITION & DIETETICS

PAPER—NUD-303

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.

Module—I

(Marks : 20)

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

(a) What is hypercholesterolemia ?

- (b) What is Purine low diet ?
 - (c) What is ATP diet ?
 - (d) What is Glycaemic index ?
 - (e) What is leptin ?
 - (f) Write the examples of ω -3 and ω -6 fatty acid.
 - (g) How Quetlet Index indicates a person is suffering from overweight ?
 - (h) What is Rheumatoid arthritis ?
2. (a) Write the role of antioxidants for the management of CHD.
- (b) Write the role of omega-3-fatty acid in the management of CVD.
- (c) Write about few demerits of artificial sweeteners.

4+2+2

Or

- (a) What are the different types of insulin used in diabetic patient ?

(b) State the meal timing on the basis of the type of insulin used in this purpose. Why wheat is preferred than rice in daily menu of diabetic patient?

(c) Write the role of nutraceuticals for the management of diabetes mellitus. 2+(2+2)+2

3. (a) Why obesity is called a metabolic disorder induced disease?

(b) Write the role of VLCD for the prevention of obese adult male patient whose body weight is 50% greater than his ideal body weight.

(c) Write the difference between weight reducing diet and weight maintenance diet. 2+3+2

Or

(a) Write the process of atherosclerosis for the formation of atheroma.

(b) Discuss the strategy adopted for the dietary management of atherosclerosis. 3+4

Module—II

(Marks : 20)

4. Answer any *five* questions of the following :
- (a) What is P₅₃ Gene?
 - (b) Write the name of any four food stuffs included in galactose restricted diet.
 - (c) Write the full form of RIST and RAST.
 - (d) Write the different signs and symptoms allergies.
 - (e) What is classical Phenylketonuria?
 - (f) What is megaloblastic anaemia?
 - (g) Why cataract is noted in Galactosemia?
 - (h) What is primary hypersensitivity?
5. (a) Discuss the genes involved for cancerous
- (b) Write the antioxidative role of different nutrients preventing cancer.

- (a) Write the different types of Phenylketonuria and the location of the gene for this purpose.
- (b) Write the dietary management of Phenylketonuria of an infant using formulated food and natural food.
- (c) What are the consequences of Galactosemia ?

2+3+3

6. (a) Give the role of ICDS in preventing Vit. A deficiency.
- (b) Why male are susceptible to haemolytic anaemia than female ?
- (c) Write the functions of Vit. B₁₂ for the prevention of anaemia.

2+3+2

Or

- (a) Write the basis of food allergy.
- (b) Write the steps adopted for the management of food allergy by food item removal from daily menu.

(c) Write the immunological test for the detection of allergy.
