2016

M.Sc.

3rd Semester Examination

CLINICAL NUTRITION & DIETETICS

PAPER—CND-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.

Answer *Q. No. 1* and any *three* question from the rest.

1. Answer any *ten* questions :   10×1

   (i) The important sensor for assessment of β cell status of Pancreas is --

   (a) Plasma level of blood glucose ;

   (b) Plasma level of insulin ;

(c) Plasma level of pancreatic C-peptide ;

(d) Plasma level of pro-insulin.

(ii) For the management of cellular oxidative stress in diabetic patient, the most important vitamin is —

(a) Vitamin E ;   (b) Vitamin A ;

(c) Vitamin C ;   (d) Vitamin B_6.

(iii) Due to inhibition in the activity of 'Aurebach & Meissner's plexus', the constipation which is developed known as —

(a) Atonic ;   (b) Spastic ;

(c) Obstructive ;   (c) Hyperosmatic.

(iv) Carbohydrate counting is an important technique for the management of —

(a) Hypertension ;   (b) Atherosclerosis ;

(c) Diabetes ;   (d) Diabetes & Obesity.

(v) DASH diet includes —

(a) Fat, Red meats ;

(b) Fried foods, preserved & processed foods ;

(c) Whole grains, fish, poultry & nuts ;

(d) Butter, Big fishes, Salty food item.

(Continued)

(vi) The aim of 'Radio Allergosorbent test' is to detect —

(a) IgA antibody ;

(b) IgE antibody ;

(c) IgG antibody ;

(d) IgM antibody.

(vii) Graduated exclusion diet which is adopted to detect the allergic response of the food-time requires minimally —

(a) 2 week ;

(b) 4 week ;

(c) 6 week ;

(d) 8 week.

(viii) Foam cells are modified —

(a) Macrophages ;

(b) Monocytes ;

(c) Endothelial cells ;

(d) Lymphocytes.

(ix) To prevent atherosclerosis, the most healthy edible oil which is the mixture of Sun Flower oil, Palm oil, and Mustard oil at the ratio of —

(a) 1:1:1 ;

(b) 1:2:2 ;

(c) 2:2:1 ;

(d) 2:1:2.

(x) Soya protein is an important dietary ingredient for the prevention of atherosclerosis as it contains —

(a) Geno estrogen ;

(b) Flavonoids ;

(c) Genistein & Daidzein ;

(d) Allicin.

(xi) Which of the following dietary item is beneficial for the prevention of diarrhoea ?

(a) Dietary fiber ;   (b) Milk ;

(c) Fermented milk ;   (d) Fried food item.

(xii) Which one is cancer cell ?

(a) HeLa ;   (b) Vero ;

(c) BHK ;   (d) HL8.

(xiii) Hypertension is called a 'silent killer' because —

(a) It comes without obvious symptoms ;

(b) It is the Green word of 'Silent Killer' ;

(c) People with hypertension are homicidal ;

(d) None of above.

(xiv) What is nutritional anemia ?

(xv) What is lipoprotein cascade ?

2. (a) Why lactose intolerance is associated with diarohoea ?

(b) 'Chronic use of Laxative also results constipation'. Justify the statement.

(c) Write the phase specific dietary management of diarrhoea of a school going child.

2+2+6

(Continued)

3. (a) Write the stages of atherosclerosis.

(b) 'Diosgenin and tigogenin of Saponins prevent atherosclerosis' — Justify the statement.

(c) 'Moderate level of tea intake helps to prevent diabetes'. — Justify the statement.

4+3+3

4. (a) Describe in brief about the basis of systemic and general allergic reaction taken due to food allergens.

(b) State the principle of allergy test of specific food item by food elimination test.

(c) Write the guideline of dietary management of allergy.

5+3+2

5. (a) Write in brief the healthy food style for the management of diabetic patient.

(b) Write the principle of food supply and insulin injection from the view point of time.

(c) Why water soluble fiber is effective for the management of diabetes ?

4+3+3

(Turn Over)

6. (a) Briefly describe different types of Cancers.

(b) What do you understand about prevalence of cancer ?

(c) Briefly discuss about formulation of therapeutic diet for the prevention of cancer.

(d) What are the causes of hypertension ?

3+2+3+2

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