2012

M.Sc.

1st Semester Examination

NUTRITION & DIETETICS

PAPER—NUD-101

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 the role of xanthine oxidase in connection with nucleoprotein metabolism ?

(b) Write the full form of CMC.

(c) What is Hormone receptor ?

(d) Write the names of any two metal having positive effect on cellular immunity.

(e) Write the names of any two nutrients having stimulatory effect on growth.

(f) Write the full forms of 'CRE' and 'TSS'.

(g) What is Cytokine?

(h) What is acquired immunity?

2. (a) Explain the role of insulin on carbohydrate metabolism through genomic signal transduction path way.

(b) Describe in brief about the cross-talk among PTH, thyrocatcitonin and Vit-D_3 on skeletal growth.

(c) State the role of Vit-E as antioxidant. 3+3+2

Or

(a) Describe the endogenous nano-particle formation in connection with fat absorption.

(b) Explain the role of thyroxine with special reference to management of hyperlipidaemia.

(c) State the role of first class protein on humoral immunity. 3+4+1

3. (a) "Growth hormone control the muscular growth" Justify the statement.

(b) Describe any two constrains on growth and development of infant.

(c) State the role of folate on haematopoietic system. 3+3+1

Or

(a) Explain the role of gastrin and seoretin on gastric juice secretion.

(b) State the duel role of cortisol on blood glucoze homeostasis.

(c) State the role of aldosterone on sodium metabolism. 3+3+1

Module—II

[Marks—20]

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

(a) Write the level of TMG.

(b) Write the full forms of PAF and EDGF.

(c) What do you mean by dialysis ?

(d) What do you mean by 'Nephritis' ?

(e) What do you mean by urea clearance ?

(f) Write the name of satiety centre.

(g) What is osteogenesis ?

(h) What is Z. E. Syndrome ?

5. (a) What do you mean by renal dialysis ?

(b) State the principle of haemodialysis.

(c) Why creatinine concentration in Plasma is consider as an important sensor for the indication of renal failure ?

(d) Why calcification is affected in the children suffering from renal disease. 2+2+2+2

Or

(a) What do you mean by feeding centre?

(b) How pressure receptor and stretch receptors in our G.T. tract control the satiety?

(c) Discuss in brief about the role of hormones on the regulation of thirst. 1+4+3

6. (a) "Activity of red muscle is more than pole muscle" — Justify the statement.

(b) Describe the energy source in muscle at the first and second phase of long term physical work.

(c) Discuss in brief about endurance.

$2+(1\frac{1}{2}+1\frac{1}{2})+2$

Or

(a) "Diabetes in an important pathophysiological state for induction of cardiovascular diseases"—Justify the statement.

(b) State the scale between $H6A_{IC}$ and blood glucose level.

(c) Write in brief about the role of lipoprotein-a in cardiovascular disease 2+2+3

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