

2013

M.Sc.

1st Semester Examination

CLINICAL NUTRITION AND DIETETICS

PAPER—CND-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.

Answer Q. No. 1 and any three of the following.

1. Answer any ten questions of the following : 10×1
 - (a) Write the names of any two growth markers of pre-school children.
 - (b) Write the full forms of DAG and IP₃.
 - (c) Write the names of any two enzymes which are integral part of fixed model receptor.
 - (d) Write the names of any one PUFA and MUFA.
 - (e) What do you mean by Genoeostrogen?
 - (f) What do you mean by ROS?
 - (g) Write the name of one cancer gene and anticancer gene.
 - (h) Write the full form of CAD and iCAD.
 - (i) Define food style.
 - (j) Write the names of any two ergogenic aids.
 - (k) What do you mean by cell cycle?

- (j) What do you mean by 'Body Composition'?
- (m) What do you mean by immunomodulator?
- (n) Write the names of any two dietary ingredients those can manage the stress.
- (o) Write the names of any hormones those regulator pubertal growth.
2. (a) Write the cyclical process of regulatory component for its regeneration in fixed model receptor.
- (b) Discuss the role of insulin on carbohydrate metabolism with special reference to its receptor mediated process.
- (c) Describe the nongenomic action of norepinephrine for induction of hyperglycaemia. 3+4+3
3. (a) Discuss the role of P₅₃ gene for controlling cell cycle.
- (b) Write the role of Rb anticancer gene.
- (c) Discuss the events for the formation of apoptosoma. 4+3+3
4. (a) Discuss the mechanism of stress induced male infertility in brief.
- (b) Describe the events of athorma formation with special reference to LDL-C.
- (c) 'PUFA is antiatherosclerotic agent' — Justify. 5+3+2
5. (a) Why lean body mass in preferred during exercise and performance?
- (b) How body compositions are assessed?
- (c) What is blood doping?
- (d) Enumerate your view about gene as ergogenic aids of future generation. 2+3+2+3