

2016

M.Sc. 1st Semester Examination

CLINICAL NUTRITION & DIETETICS

PAPER—CND-101

Full Marks : 40

Time : 2 Hours

The figures in the 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 from the rest.

1. Answer any ten of the following : 1×10

- (i) What do you mean by orphan receptor ?
- (ii) Define mobile model receptor.
- (iii) What is athorma ?

(Turn Over)

- (iv) What do you mean by pro-apoptotic genes ?
 - (v) What do you mean by necrosis ?
 - (vi) Write the full form of IP_3 .
 - (vii) What do you mean by reproductive growth ?
 - (viii) What is non-genetic action of hormone ?
 - (ix) Write the full form of IRS.
 - (x) Write the full form of PAF.
 - (xi) What is glycaemic index ?
 - (xii) What is $\dot{V}O_2$ max ?
 - (xiii) What is carbohydrate loading ?
 - (xiv) What is growth spurt ?
2. (a) Write the different components of fixed model receptor.
- (b) How does LH can transmit signal to the genomic level ?
- (c) Why genomic signal transduction pathway has long lag phase ?

2+6+2

3. (a) Write the location of insulin receptor.
- (b) How insulin can able to modulate cellular function through tyrosine kinase pathway ?
- (c) State mode of action mobile model receptor on genetranscription in brief. 1+6+3
4. (a) Define genoestrogen.
- (b) State the underirable effects of genoestrogen on male and female reproductive systems.
- (c) Write in brief about the role of protein on pregnancy. 2+(3+3)+2
5. (a) How energy is supplied in an athlet at the initiation of exercise ?
- (b) Discuss the role of different approved ergogenic aids in athlet.
- (c) What is meant by biological clock ? 1+7+2

6. (a) What is prenatal growth ?
- (b) Discuss the different phases of germinal growth ?
- (c) What do you mean by menarche ?
- (d) Write the hormonal regulation of prenatal growth.
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