

2016

M.Sc.

3rd Semester Examination

CLINICAL NUTRITION & DIETETICS

PAPER—CND-302

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 from the rest.

1. Answer any ten questions of the following : 10×1
- (a) What do you mean by bio transformation of drug?
 - (b) What is agonist?
 - (c) What do you mean by drug clearance?
 - (d) What is log dose response curve?
 - (e) What is LD 50?

(Turn Over)

- (f) What do you mean by pharmacokinetics?
- (g) What do you mean by plateau effect?
- (h) What do you mean by efficacy of drug?
- (i) What is synergistic effect of drug?
- (j) What do you mean by ligand?
- (k) What is meant by quality of a food?
- (l) What is self-appraisal?
- (m) Write the full form of HACCP.
- (n) What is meant by sideway communication in a food industry?
- (o) Define Quality assurance.

2. (a) Write the different principles of drug action.
- (b) How drug influence the nutrient absorption?
 - (c) How drug transportation influence by nutrients?
 - (d) What do you mean by partial agonist and inverse agonist?

$$2+3+2+1\frac{1}{2}+1\frac{1}{2}$$

3. (a) What is first pass effect of drug ?
(b) What are the differences between competitive and non-competitive antagonism ?
(c) Discuss with two examples how renal clearance of drug influenced by nutrients.

2+3+5

4. (a) How grape fruit juice influence the drug action ?
(b) State how steep and flat dose response curve determines specific characteristics of a drug ?
(c) How age and Rheumatoid artharitis conditions are responsible for adverse effects of drug action ?

2+3+2 $\frac{1}{2}$ +2 $\frac{1}{2}$

5. (a) What do you mean by up regulation and down regulation of receptors ?
(b) What are the differences between efficacy and potency of a drug ?
(c) 'Bio-availability of drug is influenced by nutrients.' — Discuss the statement.

(2+2)+2+4

6. (a) Discuss briefly the basic elements of TQM in a food industry.
- (b) Make a comparative discussion between cost of conformance and cost of non-conformance.

5+5