

**2017**

**M.Sc.**

**3rd Semester Examination**

**CLINICAL NUTRITION & DIETETICS**

**PAPER—CND-301**

*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.No1 and any *three* question from the rest.

1. Answer any *ten* questions : 10×1

(a) What is genomics ?

(b) What do you mean by intrinsic activity of drug ?

(c) What is LD50 ?

(d) What do you mean by drug efficacy ?

*(Turn Over)*

- (e) What do you mean by drug affinity.
  - (f) Define pharmacokinetics.
  - (g) What is dose response curve?
  - h) What is ED50?
  - (i) What is supra additive synergism effect?
  - (j) What is drug antagonist?
  - (k) Write any two features of taq DNA polymerase.
  - (l) What is annealing temperature?
  - (m) What do you mean by peltier effect?
  - (n) Write one main difference in DNA duplication between *invivo* and *invitro* (PCR).
  - (o) What type of food absorption is hampered by laxative type drug?
2. (a) Discuss briefly the drug-intrient interaction at the site of absorption.
- (b) State how nutrient-drug interacted at the site of food intake and biotransformation.

- (c) What is therapeutic window? 4+(2+2)+2
3. (a) What is metabolomics?
- (b) How does cholesterol regulate its uptake and synthesis by modification of gene expression?
- (c) What is proteomics and transcriptomics? 2+4+(2+2)
4. (a) "To assess the nutritional status of an individual, Metabolomics is an indisputable tool over genomics and proteomics" — Justify the statement with example.
- (b) Write in brief about drug biotransformation. 7+3
5. (a) Elaborate the impact of teamwork on successful human resource management in a food industry?
- (b) How does the communication system in an industrial sector help in the achievement of recognition.
- (c) What do you mean by self appraisal that is required in a human resource management system? 4+3+3

6. (a) What is HACCF?
- (b) Discuss the modern concept of hand saultization in a hospital for safe food delivery.
- (c) What is cross contamination of food? How do you prevent it? 3+3+(2+2)
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