M.Sc. 3rd Semester Examination, 2019

CLINICAL NUTRITION AND DIETETICS

PAPER - CND-301

Full Marks: 40

Time: 2 hours

Answer all questions

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

1. Answer any four questions:

 2×4

- (a) What do you mean by supra additive synergistic effect of drug?
- (b) Define pharmacokinetics.

- (c) What do you mean by antagonist? Give example.
- (d) What do you mean by drug affinity?
- (e) Define bio-availability of drug.
- (f) What is the basic difference between nutrigenomics and nutrigenetics?
- (g) Write the full form of RTX and PPAR.
- (h) What do you mean by metabolomics?
- 2. Answer any four questions: 4×4
 - (a) What is dose response curve (DRC). Write the differences between two drugs having sheet DRC and Flat DRC.
 - (b) How grapes fruit juice interact with drug and alter its pharmacokinetic principles—Discuss.
 - (c) What is LD50? Write the difference between efficacy and potency. 1+3

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(<i>d</i>)	What do you mean by Therapeutic window? What is biotransformation of drug. 2	+	- 2
(e)	Write the different model of nutrient-gene interaction.		4
(f)	Write the process of epigenetics in brief citing any one example.	35	4
(g)	"Nutrient status influence drug efficiency." —Justify.		4
(h)	How does nutrient influence bioavailability of drug — discuss with example.		4
Ans	swer any two questions:	×	1
(a)	Discuss different pharmacokinetic principle of drug. What is first-pass effect? 6	+	2
(<i>b</i>)	How drug interact with the nutrient at the site of absorption and transportation. 5		3
(c)	Discuss the role of Vitamin A and ω -3 fatty acid on obessity management by gene expression.		8
	49		

3.

(d) How does nutritional modification induce better activity of drug? How do you supplement Vitamin D tablets with food? 6 + 2