M.Sc. 1st Semester Examination, 2019

CLINICAL NUTRITION AND DIETETICS

PAPER -CND-103

Full Marks: 40

Time: 2 hours

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) Differentiate nutraceuticals and pharmaceuticals
- (b) What is the function of suponimmention with its source?
- (c) Give the IUPAC definition of nanoparticle.

(d)	Mention two applications of nanoparticle in
	the field of nutrition.

- (e) What do you mean by food fortification?
- (f) Classify flavonoids.
- (g) What are GMFs?
- (h) What is the role of protease inhibitor?
- 2. Answer any four questions: 4×4
 - (a) Name the nanoparticles used in agricultural field. Mention two health hazards of any one nanoparticle. 3 + 1
 - (b) Discuss the prospects of using nanotechnology for food preservation.
 - (c) How does nanotechnology reduce the food toxicity during preservation of fruit?
 - (d) Enumerate any two techniques of nanoparticle development with diagram.

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(e) State the fundamental techniques of GMF

preparation.

(f) Write the features of plasmid.

(g)	State the role of lycopene in oxidative stremanagement.	ess 4
(h)	"Nutraceuticals are efficient therapeuragent" — Justify the statement.	tic 4
Ans	swer any two questions:	8 × 2
(a)	How do you develop biological nanopartic without using metal? Discuss the role curcumin based nanoparticle in limitine heavy metal or metalloid toxicity.	of
(b)	Discuss the advantages and disadvantages GM food.	s of 4 + 4
(c)	Describe the techniques of iron fortificat in rice using the transgenesis. State ethi aspects of this study.	

(d) Write the full form DADS. State the role of DADS on colo-rectal rectification by altering gene stability and gene expression. $1+(3\frac{1}{2}+3\frac{1}{2})$