M.Sc. 1st Semester Examination, 2023

CLINICAL NUTRITION & DIETETICS

PAPER-CND-103

Full Marks: 50

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

GROUP - A

Answer any four questions of the following:

 2×4

- Name two foods that contain nanoscale molecule and nanofilaments.
- 2. Differentiate nutraceuticals and pharmaceuticals.

(Turn Over)

- 3. Name four anti inflammatory phytochemicals.
- 4. What do you mean by synergistic action of nutraceuticals?
- 5. Write the mode of action of antioxidants for ROS management.
- 6. What do you mean by encapsulation efficiency?

GROUP - B

Answer any four questions:

- 7. State briefly about nanoniosome and nanoliposome.
- 8. How are solid lipid nanoparticles and nanostructured lipid carriers formed state diagrammatically along with its utility.
- 9. Discuss about endogenous and exogenous sources of prebiotics.

 4×4

- 10. Write about the antioxidative and antiinflammatory roles of lycopene.
- 11. What do you mean by amylase inhibitor?

 State the role of phytomolecule as amylase inhibitor for the management of diabetes. 1 + 3
- 12. Write the nature of 'Resveratrol'. State the health beneficial effect of Resvertrol focusing any one effect.

GROUP - C

Answer any two questions:

 8×2

- 13. How do you develop chitosan encapsulated curcumin nanoparticle? Briefly discuss the role of this nano formulation against female reproductive toxicity.

 4 + 4
- 14. Discuss about the mechanism of action of probiotics in the maintenance of gut health. Give a brief outline of extraction technology of phytomolecules from medicinal plant. 4+4

- 15. Write the sources of DADS. Discuss the therapeutic role of DADS for cancer management.2+6
- 16. State the nature of phytoestrogen. Write the role of phytoestrogen for the management of Osteoporosis.2+6

[Internal Assessment — 10 Marks]