

2022

1st Semester Examination

CLINICAL NUTRITION AND DIETETICS

Paper : CND 103

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

**Group - A**Answer any *four* questions :  $2 \times 4 = 8$ 

1. Define oxidative stress.
2. What are synbiotics ? Give one example.  $1+1$
3. State the name of one bioactive compound present in black pepper and green tea.
4. Define nanoparticle.
5. What is meant by green synthesis of nanoparticle?
6. What is resveratrol ?

**Group - B**Answer any *four* questions :  $4 \times 4 = 16$ 

7. Briefly illustrate your idea about probiotics with special reference to its mechanism of action.

P.T.O.

8. Discuss the role of different enzymatic antioxidants used in minimizing oxidative stress in the tissue.
9. Enumerate your view about allicin highlighting its antimicrobial functional status.
10. Discuss briefly about different nanosized particles those are contributing in nutrients and drug targeting.
11. Discuss about sonication assisted extraction of nutraceuticals mentioning its merits and demerits.
12. 'α-amylase inhibitors can act as therapeutics for hyperglycemia'. Justify the statement.

**Group - C**

Answer any *two* questions : 8×2=16

13. How do you prepare chitosan based green synthesis of nanonutraceuticals? How do you confirm the formation of successful nanoformulation of above carrier? 5+3
  14. Give an account on different aspects of application of nanotechnology in food sectors. 8
  15. Discuss the antioxidative and antiinflammatory role of curcumin. State the demerits of dietary curcumin. How do you manage it? 4+2+2
  16. What are the types of phytosterols? Discuss the different benefits of phytoestrogen along with its few adverse effects. 2+6
-