25019631

QP CODE: 25019631

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS)) REGULAR/ IMPROVEMENT/ REAPPEARANCE / MERCY CHANCE EXAMINATIONS, FEBRUARY 2025

Fourth Semester

B.Sc Clinical Nutrition and Dietetics Model III

Complementary Course - CN4CMT07 - BIOCHEMISTRY-BIOCHEMICAL ASPECTS OF NUTRITION

2017 Admission Onwards

46183EB1

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What are the causes of tetany?
2. Mention any four physiological conditions that alter body phosphorus levels.
3. Which are the good sources of Copper?
4. Mention the biochemical functions of Selenium in the body.
5. List out the enzymes which contain molybdenum.
6. Role of vitamin A in vision.
7. Clinical significance of vitamin K deficiency.
8. List out the sources and requirement of thiamine for adults.
9. Draw the structure of riboflavin.
10. How is vitamin B3 synthesised in our body?
11. What is gulonolactone?
12. How is vitamin A and vitamin K related?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Differentiate between essential and non essential elements.
14. Briefly explain the transport of Iron.
15. State the biochemical functions of Flourine and Chromium , along with their sources.
16. Explain the deficiency disorders of iodine metabolism.
17. What are the characteristics of vitamins?
18. Elaborate on the metabolic pathways that include the participation of pantothenic acid.
19. Mention the clinical significance of folate deficiency.
20. Clinical features of vitamin C deficiency.
21. Which are the nutrients impacted by the interaction of Iodine?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Elaborate on metabolism of Magnesium.
23. Elucidate on zinc utilisation in human body.
24. Elaborate on Vitamin E metabolism and biochemical functions.
25. Make an essay on the relevant vitamin - nutrient interactions.

(2×15=30)