

TB214630W

Reg. No :

Name :

B.Sc. DEGREE (C.B.C.S.) EXAMINATION, MARCH 2023
(2021 Admissions Regular, 2020 Admissions Supplementary / Improvement)
SEMESTER IV - COMPLEMENTARY COURSE 1 (NUTRITION AND DIETETICS)
ND4C07B20 - BIOCHEMICAL ASPECTS OF NUTRITION

Time : 3 Hours

Maximum Marks : 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

1. Write about the excretion of calcium from the body.
2. Define hyperphosphatemia.
3. Write the factors affecting calcium absorption.
4. What are the symptoms of goiter? What are goitrogens?
5. Discuss the role of various factors on zinc absorption.
6. Discuss the functions of manganese.
7. What is egg white injury?
8. Explain the major sources of vitamin K.
9. Discuss the functions of folate and cyanocobalamin.
10. Discuss the role of manganese and zinc in energy metabolism.
11. Discuss any two functions of biotin in macronutrient metabolism.
12. Discuss the significance of lipids in diet in terms of micronutrient absorption.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Explain the functions of calcium.
14. Write the mechanism of calcium absorption and excretion.
15. Explain the sources and role of fluorine in human body.
16. Explain the metabolism, transport and functions of manganese.
17. Describe the antioxidant activity of selenium.
18. Explain visual cycle.
19. Enumerate the various sources of fat-soluble vitamins.
20. Enumerate the various functions of vitamin C.
21. Explain why incorporation of vitamin C in diet is recommended for anemic patients.

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

22. Explain calcium absorption, excretion and factors affecting the same.
23. Explain the absorption, excretion and toxicity of zinc.
24. Describe in detail the deficiency and toxicity of vitamin A.
25. Explain the role of micronutrients in the metabolism of macronutrients with examples.