

MASTER'S DEGREE (C.S.S) EXAMINATION, MARCH 2025
2020, 2021, 2022, 2023 ADMISSIONS SUPPLEMENTARY
SEMESTER II - CORE COURSE Food Science And Nutrition
FN2C05TM20 - Advanced Nutrition II

Time : 3 Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

1. What is edema? Enlist the pathological states associated with it.
2. What is meant by water intoxication?
3. What is hypokalaemia?
4. Describe the role of calcium in blood clotting.
5. What are the signs of zinc deficiency?
6. Write a note on the deficiency disorders of iodine.
7. Write a note on the role of Vitamin K in blood coagulation.
8. Bring out the various sources of Vitamin K and RDA for adults.
9. What is the relationship between avidin and biotin ?
10. Discuss on the deficiency disorders of thiamine.

Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

11. Explain insensible water loss in humans.
12. Discuss on the factors affecting calcium absorption.
13. Describe the regulation of iron in human body with special reference to hepcidin.
14. Describe the formation and transport of thyroid hormones.
15. Describe the role of vitamin A in vision.
16. How does Vitamin D synthesis occur in human body? How does it converted to calcitriol?
17. Discuss on the digestion and absorption of folate.
18. Explain the signs of niacin deficiency. Give the RDA for adults.

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

19. Explain the regulation of water balance in human body.
20. Discuss the three stages of iron deficiency .Explain the criteria used to diagnose iron status.
21. Explain Vitamin K under the heads a) Functions b) Deficiency and c) Sources.
22. Discuss on the functions of Vitamin C. Describe the clinical manifestations of Vitamin C deficiency.