

**MASTER'S DEGREE (C.S.S) EXAMINATION, MARCH 2025**  
**2020, 2021, 2022, 2023 ADMISSIONS SUPPLEMENTARY**  
**SEMESTER II - CORE COURSE CLINICAL NUTRITION & DIETETICS**  
**ND2C06TM20 - Advanced Nutrition**

**Time : 3 Hours**

**Maximum Weight : 30**

**Part A**

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

**(8x1=8)**

1. Brief on biochemical method for the assessment of nutrients.
2. Illustrate on assessment of body weight in children.
3. Define the term body composition.
4. Discuss on PAR.
5. Describe the absorption of carbohydrates in the body.
6. Brief on the role of SFA in health.
7. Write on role of protein in water balance and nutrient transport.
8. Write a note on selenium toxicity.
9. Discuss the methods for assessing vitamin E status in the body.
10. Discuss the functions of carnitine.

**Part B**

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

**(6x2=12)**

11. Write a note on requirement of macro nutrients.
12. Write on anthropometric assessment to determine nutritional status in adults.
13. Explain the estimation of the energy requirements of individuals.
14. Brief on digestion and absorption of carbohydrates.
15. Write a note on nitrogen balance.
16. Describe the mechanism of sodium absorption.
17. Discuss the manifestations of vitamin D deficiency.
18. Explain the methods for assessing vitamin C status.

**Part C**

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

**(2x5=10)**

19. Elaborate on the estimation of body composition by indirect method.
20. What are fatty acids? Discuss in detail the classification of fatty acids.
21. Discuss calcium under the following headings: a) Absorption and Transport b) Calcium balance c) RDA.
22. Discuss vitamin K under the following headings: a) Functions b) Absorption and Transport c) Methods of assay.