

TM211410TR

Reg. No :

Name :

M. Sc. DEGREE (C.S.S.) EXAMINATION, NOVEMBER 2021
[2021 Admissions Regular and 2020 Admissions Improvement & Supplementary]
SEMESTER I - CORE COURSE (FOOD SCIENCE AND NUTRITION)
FN1C02TM20 - ADVANCED NUTRITION I

Time : 3 Hours

Maximum Weight : 30

Part A

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

(8x1=8)

1. Define body composition at Atomic level.
2. Classify body composition assessment techniques. Give any two examples for each.
3. Define Energy and enlist the need for food energy in human body.
4. Define Indian reference man and woman.
5. What is lactose intolerance? What are the ill effects of it? How can it be treated?
6. What is pectin? Mention its significance in nutrition.
7. Elaborate on obligatory nitrogen losses of adults.
8. Define and enlist essential amino acids.
9. Define lipotropic factors. Give examples.
10. Differentiate fat replacers and fat burners.

Part B

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

(6x2=12)

11. Discuss Under water weighing as a method to assess body composition.
12. Describe the causative factors of overweight.
13. Discuss on the hormonal control of carbohydrate homeostasis.
14. Describe the process of glycogen synthesis.
15. With the help of a diagramme describe the process of peptide absorption.
16. State the current methodology for determining protein requirement of Indians. Give the protein requirement of adults
17. Give an account of various types of fatty acids.
18. Why is LDL referred to as 'bad' cholesterol and HDL as 'good' cholesterol?

Part C

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

(2x5=10)

19. With the help of a diagramme explain the principle and method of measuring gross calorific value of foods in bomb calorimeter.
20. Describe TCA cycle.
21. Classify proteins based on chemical nature. Enlist the functions of protein
22. Describe the reactions of Beta oxidation of fat.