

D 52821

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2023**

(CBCSS)

Home Science (Nutrition and Dietetics)

HND 1C 04—MACRO NUTRIENTS

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

Part A

*Answer **four** questions, each in **one** paragraph.*

Each question carries a weightage of 2.

1. Reference man.
2. Glycemic Index.
3. Nutritional classification of amino acids.
4. Novel protein sources with examples.
5. Denaturation of proteins.
6. Albinism.
7. Gluconeogenesis.

(4 × 2 = 8 weightage)

Part B

*Answer any **four** questions, each within **one** page.*

Each question carries a weightage of 3.

8. Write on types of lipoproteins and their health implications.
9. Explain β oxidation of fatty acid.
10. Write on regulation of blood glucose concentration in human body.
11. Write a note on digestion and absorption of Carbohydrate.

Turn over

12. Write a note on ketone body formation.
13. Write the principles for deriving RDA.
14. Write on any *three* methods for estimating energy expenditure with its advantages and limitations.

(4 × 3 = 12 weightage)

Part C

Answer any two questions.

Each question carries a weightage of 5.

15. Discuss water balance and explain its regulatory mechanisms in the body.
16. Discuss on BMR and factors affecting BMR.
17. Discuss on inborn errors of carbohydrate metabolism.
18. Write on Dietary fibre under the following heads :
 - (a) Types.
 - (b) Functions.
 - (c) Health implications.

(2 × 5 = 10 weightage)