

**D 114581**

**(Pages : 2)**

**Name.....**

**Reg. No.....**

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, NOVEMBER 2024**

**(CBCSS)**

**Home Science (Nutrition and Dietetics)**

**HND 1C 04—MACRO NUTRIENTS**

**(2019 Admission onwards)**

**Time : Three Hours**

**Maximum : 30 Weightage**

**Part A**

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

*Each question carries a weightage of 2.*

1. RDA.
2. Ketone bodies.
3. Essential aminoacids.
4. PUFA.
5. BMR.
6. Galactocemia.
7. SDA of foods.

**(4 × 2 = 8 weightage)**

**Part B**

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

*Each question carries a weightage of 3.*

8. Explain urea cycle.
9. Explain role of bile in fat digestion.
10. Phenylketonuria and alkaptonuria.
11. Write a note on digestion and absorption of Carbohydrate.

**Turn over**

12. Give a note on role of fibre in managing body weight.
13. Write on beta oxidation of fats.
14. Write on any *three* methods of protein quality assessment.

(4 × 3 = 12 weightage)

### **Part C**

*Answer any **two** questions.  
Each question carries a weightage of 5.*

15. Elaborate the energy of TCA cycle.
16. Briefly discuss water balance in human body with special reference to :
  - a) Functions and requirements of water.
  - b) Hormonal regulation of water.
  - c) Conditions of dehydration and oedema.
17. Describe protein under the following terms :
  - a) Classification.
  - b) Sources.
  - c) Digestion.
  - d) Metabolism.
18. Write on methods for estimating energy expenditure with special reference to the advantages and limitations of each method.

(2 × 5 = 10 weightage)