

D 101261

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Name.....

Reg. No.....

**FOURTH SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, APRIL 2024**

(CBCSS)

Home Science-Nutritional and Dietetics

HND 4C 13—METABOLIC AND BIOCHEMICAL CHANGES IN DISEASES

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

**Part A**

*Answer any **four** questions, each in one paragraph.  
Each question carries 2 weightage*

1. Necrosis.
2. Renal Calculi.
3. HDL.
4. ELISA.
5. PCOD.
6. Glycosylated haemoglobin.
7. Phenylketonuria.

(4 × 2 = 8 weightage)

**Part B**

*Answer any **four** questions, each within one paragraph.  
Each question carries 3 weightage.*

8. Enumerate major metabolic changes occurring in the body due to fever.
9. Explain ECF and ICF fluids and their functions.
10. Write a note on Insulin resistance.
11. Write on any *three* diagnostic tests to detect renal diseases.
12. Explain the principle behind electrophoresis.
13. Explain metabolic alterations and clinical manifestations in obesity.
14. Write on role of liver in lipid metabolism.

(4 × 3 = 12 weightage)

**Turn over**

**Part C**

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

15. Diabetes mellitus is considered as an alteration of metabolism. Discuss.
16. Explain the metabolic functions of hormones secreted by pituitary gland.
17. Explain inborn errors of carbohydrate metabolism
18. Describe the various methods of maintaining acid- base balance in our body.

(2 × 5 = 10 weightage)