

QP Code: 311020

Reg. No.....

**Third Year B.Sc. Medical Biochemistry Regular/Supplementary  
Examinations February 2025  
Metabolism II**

**(2016 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay**

**(2x15=30)**

1. Discuss in detail biochemical functions, dietary sources, daily requirements and deficiency manifestations of vitamin C
2. Name the principle hormones of adrenal cortex. Describe their synthesis, functions and disorders.

**Short Essay**

**(2x10=20)**

3. Name any five trace elements and mention one biological function of each of them
4. Describe how heme is degraded in the body. Add a note on enterohepatic circulation

**Short Answers**

**(6x5=30)**

5. Name the principle catecholamines and their functions
6. Deficiency of thiamine
7. Basal Metabolic Rate (BMR)
8. Hypocalcaemia
9. Different methods to assess the nutritional value of proteins
10. Oxygen dissociation curve of haemoglobin

**Comment on**

**(10x2=20)**

11. Respiratory quotient (RQ)
12. Obstructive jaundice
13. Wilson's disease
14. Glycaemic index
15. Fluorosis
16. Gastrointestinal tract (GIT) hormones
17. Van den Bergh reaction
18. Antivitamins
19. Body Mass Index (BMI)
20. Transferrin

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