

QP Code: 311020

Reg. No.....

**Third Year B.Sc. Medical Biochemistry Regular/Supplementary
Examinations February 2024
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. Explain the biosynthesis of thyroid hormones. Add a note on thyroid dysfunctions.
2. Describe the chemistry, sources, biochemical function, deficiency manifestations, toxicity and laboratory assessment of Vitamin A.

Short Essay

(2x10=20)

3. Discuss the synthesis of heme and laboratory diagnosis of the associated disorders.
4. Functions of adrenal hormones.

Short Answers

(6x5=30)

5. Regulation of calcium metabolism.
6. VMA estimation and its significance.
7. Preservatives and adulterants in food.
8. Diet therapy in hypertension.
9. Biochemical functions and deficiency manifestations of zinc.
10. G proteins.

Comment on

(10x2=20)

11. Biological value of proteins.
12. Antivitamins.
13. TIBC.
14. Glycaemic index.
15. Coenzyme function of riboflavin.
16. Vitamin K cycle.
17. HRE (Hormone Sensitive Elements).
18. Schilling test
19. Ceruloplasmin.
20. Fluorosis
