

QP Code: 311020

Reg. No.....

**Third Year B.Sc. Medical Biochemistry Regular/Supplementary
Examinations January 2026
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. What is jaundice. How is it classified. Add a note on each type of Jaundice. Write principle, types of van den Bergh reaction and its diagnostic value (1+3+6+5)
2. Explain in detail formation of sunshine vitamin and its biochemical effect. Add a note on its deficiency manifestations (6+4+5)

Short Essay

(2x10=20)

3. Synthesis, secretion, mechanism of action of Thyroid hormones
4. Write sources, daily requirement, absorption, transport, storage, functions and deficiency manifestations of Iron

Short Answers

(6x5=30)

5. Write sources, daily allowance, absorption, functions and deficiency manifestations of Vitamin B₁₂
6. Define balanced diet. Write balanced diet for a sedentary worker
7. Functions of vitamin K
8. Mechanism of action of hormones acting through cAMP with an example
9. Write briefly about dietary fibres
10. Vitamin C deficiency

Comment on

(10x2=20)

11. Write a note on biological value
12. Zinc
13. What are the two states of hemoglobin quaternary structure and its characteristics
14. Biochemical defect of any two Hemoglobinopathies
15. Avidin
16. Hypocalcemia
17. Hormones with cellular receptors mediated through Tyrosine kinase
18. Normal Serum Na and Potassium levels
19. RDA of Vitamin C and Vitamin A
20. Assessment of Glucocorticoid secretion
