

QP Code: 311020

Reg. No.....

**Third Year B.Sc. Medical Biochemistry Regular/Supplementary
Examinations February 2023
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. Function of thyroid hormones and the role of Iodine in the synthesis of thyroid hormones
2. Functions of Calcium and the conditions induced by abnormal plasma levels of Calcium

Short Essay

(2x10=20)

3. Source, biochemical roles and deficiency diseases of Vitamin B12
4. Protein-Energy malnutrition. Difference between primary and secondary PEM

Short Answers

(6x5=30)

5. Therapeutic diet recommended for type 2 diabetes
6. Folate trap
7. Second messengers
8. Biochemical functions of vitamin C
9. Symptoms of negative nitrogen balance
10. Disorders of heme synthesis

Comment on

(10x2=20)

11. Significance of right shift of oxygen dissociation curve
12. G- protein coupled receptor
13. Anti-vitamins
14. Factors Affecting Protein Quality
15. RDA
16. BMR
17. Three types of obesity risks
18. Insulin receptor
19. Kernicterus
20. Heme oxygenase
