

QP Code: 311020

Reg. No.....

**Third Year B.Sc. Medical Biochemistry Regular/Supplementary  
Examinations July 2021  
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 the synthesis of heme. Add a note on the disorders associated with and their laboratory evaluation
2. Describe the iron homeostasis. Discuss the causes and laboratory evaluation of iron deficiency anaemia

**Short Essay**

**(2x10=20)**

3. Discuss the role of diet in the management of hypertension
4. Explain the biochemical functions of vitamin D. Add a note on its deficiency manifestations

**Short Answers**

**(6x5=30)**

5. Mechanism of actions of hormones
6. Isohydric transport of carbon dioxide
7. BMR
8. Protein energy malnutrition
9. Laboratory evaluation of jaundice
10. Sickle cell anaemia

**Comment on**

**(10x2=20)**

11. Beriberi
12. Urinary findings in vitamin B12 deficiency
13. Functions of zinc
14. Glycemic index
15. Enumerate four biochemical functions of ascorbic acid
16. Vitamin K cycle
17. Formation of progesterone
18. Urinary findings in hemolytic jaundice
19. Name four enzyme which require pyridoxine as coenzyme
20. Specific dynamic action of food

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