QP Code: 311020 Reg. No......

Third Year B.Sc. Medical Biochemistry Supplementary Examinations July 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. Outline the pathway of heme synthesis and its regulation. Add a note on porphyria.
- 2. Give the dietary sources and daily requirements of iron. Describe mucosal block theory of iron absorption. Add a note on hemochromatosis.

Short Essay (2x10=20)

- 3. Describe the synthesis and secretion of thyroid hormones
- 4. Nutritional and biochemical basis of Protein Energy Malnutrition (PEM)

Short Answers (6x5=30)

- 5. Wald's visual cycle
- 6. Specific Dynamic Action (SDA)
- 7. Metabolic role of folic acid and its deficiency manifestation
- 8. Describe any five functions of calcium in the body
- 9. Principles followed for prescription of diet for diabetic persons
- 10. Name the hormones of pancreas and their functions.

Comment on (10x2=20)

- 11. Biochemical functions of copper in the body
- 12. Parathyroid hormone
- 13. Significance of bile pigments in urine
- 14. Pellagra
- 15. Dietary fibre
- 16. Functions of pyridoxal phosphate (PLP)
- 17. Sickle cell anemia
- 18. Calcitriol
- 19. Folate antagonists
- 20. Neonatal jaundice
