2010 Scheme

Q.P. Code 106001 Reg. No.:.....

First Professional MBBS Degree Supplementary Examinations July 2023

Biochemistry - Paper II

Time: 3 hrs Max marks: 50

- 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 (10)

1. Describe the synthesis, biochemical functions, daily requirements, sources, and deficiency manifestation of vitamin D.

Short essays (2x5=10)

- 2. What are the principles of DNA replication. Add a note on inhibitors of replication.
- Describe how heme is degraded into bile pigments. Add a note on different types of jaundice

Short notes (5x3=15)

- 4. What are the different types of RNA. Add a note on function of tRNA.
- 5. What is the role of kidney in the regulation of pH
- 6. Salvage pathway of purine synthesis
- 7. What is mutation. Describe point mutation and frameshift mutation
- 8. Tumour markers

Answer briefly (5x2=10)

- 9. Name four applications of radioactivity in diagnosis and management of diseases.
- 10. Application of ELISA test
- 11. Immunoglobulin E and its significance
- 12. Functions of pyridoxal phosphate
- 13. Regulation of absorption of iron

Give precise answers (5x1=5)

- 14. Give two examples of preventive antioxidants
- 15. What is the reason for hypokalaemia in metabolic acidosis
- 16. Define Creatinine clearance
- 17. What is the most common cause of hepatocellular jaundice
- 18. Which enzyme deficiency causes congenital erythropoietic porphyria
