

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.
3. 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
