

**2010 Scheme****Q.P. Code 106001****Reg. No.:.....****First Professional MBBS Degree Supplementary Examinations  
July 2024****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 process of eukaryotic translation. Add a note on post-translational modifications and inhibitors of translation.

**Short essays (2x5=10)**

2. Renal regulation of acid base balance
3. Describe the source, biochemical functions, and deficiency manifestations of thiamine.

**Short notes (5x3=15)**

4. Discuss the biochemical alterations seen in blood and urine in hepatocellular jaundice
5. Gout
6. Enumerate different immunoglobulins. Describe the structure of immunoglobulin
7. PCR (Polymerase Chain Reaction)
8. Regulation of heme synthesis

**Answer briefly (5x2=10)**

9. Biological role of Vitamin K
10. Name the tumor markers for (a) prostate carcinoma (b) Colon cancer (c) carcinoid syndrome (d) hepatoma
11. Biological effect of radiation on tissues
12. Anion gap
13. Detoxification by conjugation

**Give precise answers (5x1=5)**

14. What enzymes are required for regeneration of all-trans retinal
15. Coenzyme form of biotin
16. Name two antioxidants
17. Orotic aciduria is a feature of deficiency of which enzymes
18. Name two post transcriptional modifications

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