

**2010 Scheme**

Q.P. Code 106001

Reg. No.:.....

**First Professional MBBS Degree Supplementary Examinations  
January 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. Explain in detail the active forms, biochemical functions, RDA and deficiency manifestations of Vitamin A with a note on Wald's Visual Cycle

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

2. Purine Catabolism
3. Mention the types of Porphyrrias with their enzyme defects

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

4. Respiratory Regulation of Blood pH
5. Applications of Radioactive Isotopes
6. Free radicals
7. Scurvy
8. Genetic code

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

9. Urinary picture of different types of Jaundice
10. Orotic aciduria
11. Applications of PCR (Polymerase Chain Reaction)
12. Hyperkalemia
13. Conjugation phase of Detoxification

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

14. Name two inhibitors of translation
15. Name two vectors used in gene therapy
16. Name two tumour markers with the associated clinical condition
17. Coenzyme form of Niacin
18. Name two conditions caused by defective DNA repair

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