

# **2010 Scheme**

**Q.P. Code 106001**

**Reg. No.:.....**

## **First Professional MBBS Degree Supplementary Examinations July 2025**

### **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 the active form, activation, biochemical functions, RDA and deficiency manifestations of vitamin D. (1+2+3+1+3)

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

2. Describe purine catabolism.  
3. Discuss the biochemical alterations seen in blood and urine in different types of jaundice.

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

4. Renal regulation of pH.  
5. Absorption, Storage and transport of iron.  
6. Anti oxidant enzymes and vitamins.  
7. Beri - Beri.  
8. Post transcriptional modifications.

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

9. Tubular function tests.  
10. Lesch – nyhan syndrome.  
11. Applications of recombinant DNA technology.  
12. What is Hypokalaemia. Name any one cause.  
13. Draw and label t – RNA.

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

14. Name any two inhibitors of replication.  
15. Name any two vectors used in gene therapy.  
16. Name the coenzyme forms of  
a) Pyridoxine    b) Pantothenic acid  
17. Name two tumour markers with associated clinical condition.  
18. Name two conditions caused by defective DNA repair.

\*\*\*\*\*