

# **2010 Scheme**

**Q.P. Code 106001**

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

## **First Professional MBBS Degree Supplementary Examinations February 2022**

### **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 bilirubin formation and excretion in detail. Describe the biochemical changes in hepato-cellular and obstructive jaundice. (3+3+2+2)

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

2. Creatinine clearance and its clinical significance.
3. Structure of B-DNA. Add a note on different types of DNA.

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

4. Mention the origin of carbon and nitrogen atoms in purine ring.
5. Wald's visual cycle
6. Functions and deficiency manifestations of thiamine
7. Trace elements
8. Functions of vitamin E

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

9. Hyperkalemia
10. Introns and exons.
11. Alpha fetoprotein
12. Cardiac markers
13. Chromatography

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

14. Functions of t-RNA
15. Mention two examples of post-translational modification.
16. List the biological role of vitamin B<sub>12</sub>
17. Name two causes of secondary hyperuricaemia
18. Co-enzyme form of biotin

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