

## 2010 Scheme

Q.P. Code: 105001

Reg. No.: .....

### First Professional MBBS Degree Supplementary Examinations July 2024

#### Biochemistry – Paper I

Time: 3 Hours

Total 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 Phenylalanine metabolism with a note on inborn errors associated with and relevant biochemical investigations for them

**Short essays**

(2x5=10)

2. Describe the HMP Shunt pathway and its significance
3. Structure and functions of phospholipid

**Short notes**

(5x3=15)

4. Mitochondria – Structure and Functions
5. Km value and its significance
6. Hormones regulating blood glucose level
7. Fate of pyruvate
8. Amphibolic role of TCA cycle

**Answer briefly**

(5x2=10)

9. Why heat coagulation is an irreversible process
10. Essential amino acids
11. Trans fatty acids
12. FIGLU Excretion Test

**Give precise answers:**

(5x1=5)

14. Total ATP synthesized with one molecule of glucose
15. Isoenzymes as cardiac markers
16. Name two inhibitors of electron transport chain
17. Name ketone bodies
18. Formula to calculate BMI

\*\*\*\*\*