

**First Professional MBBS Degree Supplementary Examinations  
November 2020**

**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. What is the normal pH of blood. Describe in detail about the respiratory and renal regulation of blood pH and add a note on metabolic acidosis. (1+7+2)

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

2. Catabolism of Heme
3. Recombinant DNA technology and its applications.

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

4. Formation of uric Acid
5. Functions of vitamin B6
6. Define point mutation and types with one example
7. Absorption and transport of iron
8. Genetic code

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

9. Antioxidants
10. Beri Beri
11. Acute Intermittent Porphyria
12. Gene therapy
13. Serum electrophoresis and its clinical importance

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

14. Hypokalemia
15.  $\beta$  - thalassemia
16. Name two tumour markers and their significance
17. Enzyme markers of hepatic jaundice
18. Creatinine Clearance

\*\*\*\*\*