

Q.P.Code 106001

Reg. No.:.....

First Professional MBBS Degree Examinations August 2018

Biochemistry - Paper II

Time: 3 hrs

Max marks: 50

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essay (10)

1. Describe the chemistry, biochemical functions, daily requirements, sources and deficiency manifestations of vitamin D. (2+4+1+1+2)

Short essays (2x5=10)

2. Explain briefly on absorption, transport, and functions of copper.
3. Explain the DNA repair mechanisms.

Short notes (5x3=15)

4. Point mutations.
5. Orotic aciduria.
6. Albumin.
7. Structure of immunoglobulins.
8. Cell cycle.

Answer briefly (5x2=10)

9. Co-enzyme role of biotin.
10. What is respiratory acidosis and mention one example.
11. Chloride shift
12. Distribution of total body water.
13. Albumin-globulin ratio.

Give precise answers (5x1=5)

14. Normal values of serum creatinine, serum alkaline phosphatase.
15. Mention two applications of polymerase chain reaction.
16. What is Bence-Jones protein.
17. Mention two differences between DNA and RNA.
18. What are nucleotide analogues and mention one example.
