

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.

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