

Q.P.Code 106001

Reg. No.:.....

First Professional MBBS Degree Supplementary Examinations, February 2014

**BIOCHEMISTRY - PAPER II**

Time : 3 hrs

Max marks : 50

- Answer all questions
- Draw diagrams wherever necessary

**Essay**

(10)

1. Describe the source, dietary requirements, biochemical functions and deficiency manifestations of vitamin A. (1+1+4+4=10)

**Short essays**

(2x5=10)

2. Explain briefly on blood buffers and add a note renal mechanism of maintaining acid base balance. (2+3=5)
3. Describe the process of DNA replication. (5)

**Short notes**

(5x3=15)

4. Abnormal hemoglobins
5. Tumor markers
6. Liver function tests
7. Immunoglobulins
8. Gene therapy

**Answer briefly**

(5x2=10)

9. Folate antagonists
10. Normal serum concentration of sodium and potassium
11. ELISA ( Enzyme linked immunosorbent assay )
12. What is the normal serum calcium level. Name the hormones regulating serum calcium
13. Enzyme defect in Lesch-Nyhan syndrome and orotic aciduria

**Give precise answers**

(5x1=5)

14. Deficiency of vitamin C
15. Examples for point mutation
16. What are BJP(Bence Jones proteins)
17. Name two oncogenes
18. Normal serum uric acid level

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