

**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

