

**Q.P.Code 106001**

**Reg. No.:.....**

**First Professional MBBS Degree Supplementary Examinations  
January 2018**

**BIOCHEMISTRY - PAPER II**

**Time: 3 hrs**

**Max marks : 50**

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

**Essay (10)**

1. Describe the sources, RDA, functions and deficiency disorders associated with vitamin D. (1+1+4+4)

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

2. Porphyrias.
3. Describe post transcriptional modifications and its significance with examples.

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

4. Okazaki fragments.
5. Name three factors regulating plasma calcium levels
6. Chloride shift
7. Absorption of iron
8. Bence-Jones proteins

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

9. Ceruloplasmin
10. Fluorosis
11. Vanden Berg reaction
12. Base-pairing rule
13. Oncogenes

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

14. Name the deficient enzyme in Lesch-Nyhan syndrome
15. Mention the function of spliceosomes
16. Name two DNA repair mechanisms
17. Tumor markers
18. Albumin-globulin ratio

\*\*\*\*\*