

**First Professional MBBS Degree Supplementary Examinations**

**February 2017**

**BIOCHEMISTRY - PAPER II**

**Time : 3 hrs**

**Max marks : 50**

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

**Essay (10)**

1. Mention the salient features of genetic code. Discuss in detail about the various types of mutation. (3+7=10)

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

2. Un-conjugated hyperbilirubinemias
3. Plasma buffers

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

4. Thalassemias
5. Lesch Nyhan syndrome
6. Phase II reactions of detoxification
7. Wilson's disease
8. Vitamin K cycle

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

9. Restriction endonuclease
10. Acute intermittent porphyria
11. Function and deficiency manifestations of vitamin E
12. Post translational modifications
13. Western blot technique

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

14. DNA helicase
15. Disorder of defect in excision nucleotide repair
16. Mention the copper containing enzymes
17. Hormones involved in regulation of blood calcium level
18. Bence Jones protein

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