

**Q.P.Code 106001**

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

First Professional MBBS Degree Examinations, August 2013

**BIOCHEMISTRY - PAPER II**

**Time : 3 hrs**

**Max marks : 50**

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

**Essay (10)**

1. Discuss in detail the mechanism by which kidney maintains the blood pH. What is meant by metabolic acidosis and how it is compensated. (1+6+3=10)

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

2. Explain the degradation of haem
3. Discuss the process of transcription in prokaryotes

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

4. Cytochrome p450
5. List the different functions of plasma proteins.
6. Describe the Wald's visual cycle.
7. Antioxidants
8. Discuss the base repair mechanism of DNA

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

9. Pellagra
10. Factors affecting iron absorption
11. DNA finger printing
12. Define gout and name three drugs used to treat gout.
13. Orotic aciduria

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

14. Mention two features of mitochondrial DNA
15. List the functions of restriction endonucleases.
16. Define tumor markers and mention one example
17. The normal albumin-globulin ratio and mention a condition in which it is reversed
18. Mention the examples of partially acceptable missense mutation and unacceptable missense mutation

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