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QP Code 106001 **Reg. No.:.....**

First Professional MBBS Degree Examinations, August 2012

BIOCHEMISTRY - PAPER II

Time : 3 hrs **Max marks : 50**

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

Essay **(10)**

1. Describe the sources, RDA, biochemical functions and deficiency manifestations of vitamin D. (2+1+5+2=10)

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

2. Describe the salvage pathway of purine nucleotide synthesis with its significance. Describe the disorder associated with it.
3. Describe the structure and functions of tRNA.

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

4. Define metabolic acidosis. Mention the causes and biochemical finding in metabolic acidosis.
5. Define replication and mention four inhibitors of replication.
6. Marasmus.
7. Mention the functions of zinc.
8. Cause and clinical features of acute intermittent porphyria.

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

9. Define nucleotide. Name two adenosine nucleotide derivatives.
10. Point mutation
11. Name the liver function tests.
12. Functions of biotin.
13. Define thalassemia and mention the different types of thalassemias.

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

14. Name two tumor suppressor genes.
15. Define genetic code.
16. Name two hormones causing increased levels of cyclic AMP.
17. Name the coenzyme required for transamination reactions.
18. Mention the normal serum calcium level.

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