QP Code 1601 **Reg. No.:……**

First Professional MBBS Degree Examinations - September 2011

BIOCHEMISTRY - PAPER II

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

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

Essay **(10)**

1. Describe how protein is synthesized in body. Name any two inhibitors of protein biosynthesis. Add a note on post translational modifications. (6+2+2=10)

Discuss the following: **(2x5=10)**

2. Outline the degradation of heme. Add a note on fate of conjugated bilirubin in intestine.
3. Write briefly on storage and absorption of iron from intestine.

Write short notes on: **(5x3=15)**

4. What is gout. Mention the causes of primary gout.
5. What is the role of kidney in acid base regulation.
6. What are restriction endonucleases. What are their uses.
7. Write principle and application of polymerase chain reaction.
8. Write the structure of IgG molecule and indicate its function.

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

9. Name the coenzyme forms of niacin and write important functions for each one of them.
10. Wilson's disease.
11. What is metabolic acidosis. Give one example of a disease associated with it.
12. Give two examples of detoxification by conjugation.
13. What is post hepatic jaundice. How is it diagnosed biochemically.

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

14. What is provitamin. Give one example.
15. Clinical features of rickets.
16. Give one example for point mutation.
17. What are the enzymes commonly used in ELISA Technique.
18. Xeroderma pigmentosum is due to deficiency of what process.

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