

First Professional MBBS Degree Supplementary Examinations, February 2013

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)

Short essays (2x5=10)

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

Short notes (5x3=15)

4. Define gout. Mention the causes of primary gout.
5. Explain the role of kidney in acid base regulation.
6. List the restriction endonucleases and mention its uses.
7. Mention the principle and application of polymerase chain reaction.
8. Explain 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. Mention one example of a disease associated with it.
12. List two examples of detoxification by conjugation.
13. What is post hepatic jaundice and how it is diagnosed biochemically.

Give precise answers (5x1=5)

14. Pro vitamin and mention one example.
15. Clinical features of rickets.
16. One example for point mutation.
17. Enzymes commonly used in ELISA technique.
18. Xeroderma pigmentosum is due to deficiency of.