

**First Professional MBBS Degree Examinations July 2017****BIOCHEMISTRY - PAPER II**

Time : 3 hrs

Max marks : 50

- Answer all questions
- Draw diagrams wherever necessary

**Essay (10)**

1. Discuss the process of translation and add a note on post translational modifications.

(7+3)

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

2. Porphyrrias presenting with photosensitivity

3. Metabolic acidosis

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

4. Sickle cell anemia

5. Gout

6. Phase I reactions of detoxification

7. Menke's disease

8. Folate trap

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

9. Apoptosis

10. Factors influencing absorption of iron

11. Active forms of vitamin A and the deficiency manifestations

12. Post transcriptional modifications

13. Southern blot technique

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

14. Molecular scissors.

15. Disorder of defect in mismatch repair

16. Mention the zinc containing enzymes

17. Wobble hypothesis.

18. Mention the acute phase reactants

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