

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. Porphyrias 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
