

First Professional MBBS Degree Examinations -August 2016

BIOCHEMISTRY - PAPER II

Time : 3 hrs

Max marks : 50

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

Essay (10)

1. Define transcription and explain in detail the transcription in prokaryotes. Add a note on post transcriptional modifications (1+5+4=10)

Short essays (2x5=10)

2. Metabolic acidosis
3. Structure of immunoglobulin

Short notes (5x3=15)

4. Acute intermittent porphyria
5. Obstructive jaundice
6. Role of calcitonin in regulation of calcium homeostasis
7. Define tumor markers and mention four examples
8. Lesch Nyhan syndrome

Answer briefly (5x2=10)

9. Functions of vitamin K
10. Functions of magnesium
11. Four applications of recombinant DNA technology
12. Biochemical functions of thiamine
13. Mention two examples for detoxification by reduction

Give precise answers (5x1=5)

14. Important buffer in intracellular fluid
15. Co-enzyme form of pyridoxine
16. Major storage form of iron
17. Enzyme deficient in Wilson's disease.
18. The end product of purine metabolism in human
