

**First Professional MBBS Degree Supplementary Examinations -
February 2015**

BIOCHEMISTRY - PAPER II

Time : 3 hrs

Max marks : 50

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

Essay

(10)

1. What is transcription. Enumerate the steps in transcription and add a note on post transcriptional modifications (2+4+4=10)

Short essays

(2x5=10)

2. How purine nucleotides are degraded. Add a note on abnormalities due to excessive purine catabolism. (3+2=5)
3. Biochemical functions and deficiency manifestations of vitamin B₁₂ (3+2=5)

Short notes

(5x3=15)

4. Detoxification by conjugation
5. What are the salient features of genetic code
6. Respiratory acidosis
7. Name any two trace elements and mention the biological functions of each of them
8. Functions of albumin

Answer briefly

(5x2=10)

9. Salvage pathway of purine synthesis
10. Urea clearance test
11. Restriction enzymes
12. Acute intermittent porphyria
13. Principle of radioimmunoassay

Give precise answers

(5x1=5)

14. Folate trap
15. Define BMR
16. What is ceruloplasmin.
17. Oncogenes
18. What is the normal serum level range of sodium and potassium