Q.P.Code 106001	Reg. No.:
First Professional MBBS Degree Examinations - August 2015	
BIOCHEMISTRY - PAPER II Time : 3 hrs	Max marks : 50
Answer all questionsDraw diagrams wherever necessary	
Essay	(10)
1. Describe the process of transcription. What are the p	oost transcriptional
modifications. Mention two inhibitors of transcription.	. (6+3+1=10)
 Short essays (2x5=10) 2. Describe uric acid formation and mention the clinical significance of its estimation. 3. Mention the normal level of serum calcium. Explain the hormonal regulation of 	
serum calcium	
Short notes4. Acute intermittent porphyrias.	(5x3=15)
5. Mention the normal sodium level and clinical manifes	station of hyponatremia.
6. Applications of radio activity.	
7. Metabolic acidosis.	
8. Creatinine clearance test.	
Answer briefly 9. List two reactions where the folic acid is the co-enzy	(5x2=10) me.

- 10. Principles of colorimetry.
- 11. How benzoic acid and sulfanilamide are detoxified in human body.
- 12. Explain why edema develops in hypo albuminemia.
- 13. List the different classes of immunoglobulins and mention the functional role of any one.

(5x1=5)

Give precise answers

- 14. List anti vitamins and mention one example.
- 15. Co-enzyme functions of biotin.
- 16. Name two biochemical markers of cancer.
- 17. Reverse transcriptases.
- 18. Proto-oncogenes.
