

Q.P.Code 106001

Reg. No.:.....

First Professional MBBS Degree Examinations, August 2014

**BIOCHEMISTRY - PAPER II**

Time : 3 hrs

Max marks : 50

- Answer all questions
- Draw diagrams wherever necessary

**Essay**

(10)

1. Define replication. Describe in detail the replicative process in prokaryotes with the help of diagrams (1+ 6+ 3= 10)

**Short essays**

(2x5=10)

2. Discuss the structure and functions of Immunoglobulins  
3. Discuss the co-enzyme role of thiamine and the deficiency disorder.

**Short notes**

(5x3=15)

4. Differences between metabolic acidosis and respiratory acidosis.  
5. PCR technique  
6. Blood and urinary findings in various types of jaundice  
7. List the functions of selenium.  
8. Frame shift mutation

**Answer briefly**

(5x2=10)

9. Calcitriol  
10. Congenital erythropoietic porphyria  
11. Wobble hypothesis  
12. Spliceosomes  
13. Creatinine clearance

**Give precise answers**

(5x1=5)

14. Mention the normal serum albumin level and list two conditions where serum albumin is decreased  
15. Mention any two features of p53 gene  
16. How glycine is used in detoxification reactions.  
17. Enumerate the functions of zinc in the body.  
18. Name the amino acids involved in the synthesis of pyrimidine

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