Q.P.Code 106001	Reg. No.:
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## First Professional MBBS Degree Supplementary Examinations - February 2016

## **BIOCHEMISTRY - PAPER II**

Time: 3 hrs Max marks: 50

- Answer all questions
- Draw diagrams wherever necessary

Essay (10)

1. Describe the salvage pathways for purine and pyrimidine synthesis. Explain the biochemical basis of Lesch-Nyhan syndrome and Von Gierke's disease. (5+5=10)

Short essays (2x5=10)

- 2. Define clearance and how it is estimated. Add a note on its diagnostic importance.
- 3. Genetic code.

Short notes (5x3=15)

- 4. Draw a neat labeled diagram of DNA structure
- 5. Role of kidney in blood pH regulation
- 6. Mitochondrial DNA
- 7. Enumerate three post translational modifications of proteins with one example each
- 8. Principle of ELISA and two clinical applications in clinical diagnosis

Answer briefly (5x2=10)

- 9. One example each of detoxification by oxidation and conjugation
- 10. Enumerate two glomerular function tests
- 11. Enumerate primary and secondary bile acids
- 12. Four functions of plasma proteins
- 13. Two clinical conditions of hyper gammaglobinaemia

## Give precise answers

(5x1=5)

- 14. First pharmaceutical product of recombinant DNA technology for human use
- 15. Vitamin deficiency in beriberi
- 16. Anti hemorrhagic vitamin
- 17. Two radio isotopes used in the diagnosis and treatment
- 18. Active form of vitamin D

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