

**Time: 3 Hours** 

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**Total Marks: 50** 

## First Professional MBBS Degree Examinations July 2017

## **BIOCHEMISTRY- PAPER I**

## Answer all questions Draw diagrams wherever necessary (10)Essay 1. Define enzymes. Classify enzymes according to IUB system with one example each. Discuss about three enzymes commonly estimated after myocardial infarctid(1+3+6=10) Short essays (2x5=10)2. Diagrammatic representation of mitochondrial electron transport chain and location of ATP synthesis (3+2=5)3. Define transamination and explain by giving two examples. (1+4=5)Short notes (5x3=15)4. What are lipotropic factors. Enumerate three lipotropic factors. 5. Phenylketonuria 6. Enumerate irreversible steps of glycolysis with the enzymes involved. nker.com 7. Functional classification of proteins. 8. Carnitine shuttle Answer briefly (5x2=10)9. Enumerate essential amino acids 10. What is HbA1C and mention its clinical importance. 11. Two co-enzyme roles of NADPH 12. Four functions of phospholipids 13.Define gluconeogenic. Name the fluconeogenic substrates Give precise answers: (5x1=5) 14. Bond not broken in denaturation of protein 15. Enzyme deficiency in Cori's disease 16. Plasma lipoprotein which is inversely correlated with coronary heart disease 17. One sulphur containing amino acid 18. Enzyme defect in alkaptonuria

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