Q.P. Code: 105001 Reg. no.:

First Professional MBBS Degree Examinations July 2017

BIOCHEMISTRY- PAPER I

		Total Marks: 50
Time: 3 Hours	and the second of the second of the second of	
	A	

Answer all questions

Draw diagrams wherever necessary

Essay (10)

Define enzymes. Classy enzymes according to IUB system with one example each.
Mention three enzymes commonly estimated after myocardial infarction. (1+3+6=10)

Short essays (2x5=10)

 Diagrammatic representation of mitochondrial electron transport chain and location of ATP synthesis

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.
- 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 gluconeogenesis. 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
