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First Professional MBBS Degree Examinations July 2017 BIOCHEMISTRY- PAPER I

Time: 3 Hours Total Marks: 50

- Answer all questions
- Draw diagrams wherever necessary

Essay (10)

Define enzymes. Classify enzymes according to IUB system with one example each.
 Discuss about three enzymes commonly estimated after myocardial infarction. +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.
- Phenylketonuria
- Enumerate irreversible steps of glycolysis with the enzymes involved.
- 7. Functional classification of proteins.
- Carnitine shuttle

Answer briefly (5x2=10)

- Enumerate essential amino acids
- What is HbA1C and mention its clinical importance.
- Two co-enzyme roles of NADPH
- Four functions of phospholipids
- Define gluconeogenic. Name the fluconeogenic substrates

Give precise answers: (5x1=5)

- 14. Bond not broken in denaturation of protein
- Enzyme deficiency in Cori's disease
- Plasma lipoprotein which is inversely correlated with coronary heart disease
- One sulphur containing amino acid
- Enzyme defect in alkaptonuria

