Q.P. Code: 105001

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First Professional MBBS Degree Examinations - August 2015 BIOCHEMISTRY- PAPER I

Time: 3 Hours Total Marks: 50

- Answer all questions
- Draw diagrams wherever necessary

Essay (10)

1. Enumerate the components of electron transport chain. Describe the synthesis of ATP. Indicate the site specific inhibitors. Mention two examples for uncouplers.

(4+2+2+2=10)

Short essays (2x5=10)

- 2. Gluconeogenesis
- 3. Diagnostic significance of serum enzymes

Short notes (5x3=15)

- 4. Digestion of carbohydrates
- 5. Essential fatty acids
- 6. Denaturation
- 7. Principle of chromatography
- 8. Name three glycogen storage diseases and its biochemical defect

Answer briefly (5x2=10)

- 9. Role of carnitine
- 10. Define isoelectric pH. State properties of a protein at its isoelectric pH
- 11. Importance of HMP shunt pathway
- 12. Sources of ammonia
- 13. Allosteric enzymes

Give precise answers: (5x1=5)

- 14. Name the biochemical defect in Nieman-pick disease
- 15. Zymogen activation
- 16. Mention the reaction catalyzed by ATP-citrate lyase
- 17. Mention two biologically active peptides
- 18. Mention one therapeutic use of enzyme

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