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# First Professional MBBS Degree Supplementary Examinations -February 2015

# **BIOCHEMISTRY- PAPER I**

#### **Time: 3 Hours Total Marks: 50** Answer all questions Draw diagrams wherever necessary (10)Essay 1. Explain the reactions of glycogenesis and glycogenolysis in flow diagrams. Describe

### Short essays

- 2. Describe the role of lipoproteins in cholesterol transport.
- 3. Chemiosmotic mechanism of ATP synthesis.

how these processes are regulated.

#### Short notes

4. What is active methionine. Mention two examples of transmethylation reaction.

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- 5. What is glucose alanine cycle and mention its significance.
- 6. Fatty liver
- 7. Name different types of specificity shown by enzymes with examples.
- 8. Denaturation of proteins.

# **Answer briefly**

- 9. Define Km value and state its importance
- 10. What is the role of bile salts in fat digestion and absorption.
- 11. What is phenylketonuria and name the enzymatic defect.
- 12. Dietary fibre
- 13. Bence Jones protein

# Give precise answers

- 14. List two examples of mucopolysaccharides.
- 15. Name four essential amino acids.
- 16. Name two therapeutic enzymes.
- 17. List any four high energy compounds.
- 18.Mention the biochemical defect in fructosuria

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(4+4+2=10)

(2x5=10)

(5x3=15)

(5x2=10)

(5x1=5)

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