



**RUHS FIRST YEAR MBBS EXAMINATION**

**BIOCHEMISTRY- PAPER - I**

**August 2012 TIME: 3 HOURS TOTAL MARKS: 50**

**INSTRUCTIONS:**

1. Que. No. 1 and 5 in section A and B are compulsory. Attempt ANY TWO questions from rest of the questions in each section.

2. Use separate answer sheet for each section.

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**Section A**

Q1. a) Explain the amphibolic role of citric acid cycle. (A. 257) (5)

b) Write acute and chronic complications of Diabetes mellitus. (A. 655) (5)

Q2. a) What is  $\beta$ -oxidation of fatty acids? Write energetics of palmitic acid oxidation (A. 288) (4)

b) Discuss regulation of Gluconeogenesis process. (A. 258) (4)

Q3. a) What are isoenzymes? Give examples. What are their clinical significance? (4) (A. 112,114)

b) Explain the mechanism of inhibition of enzymes.

Give examples of each. (A. 94)(4)

Q4. Write short notes on (8)

a) Galactosemia(A. 278)

b) IgG Structure and functions(A. 187))

c) High energy compounds (A. 221)

**Section B**

Q5. a) Name the compounds synthesized from phenylalanine. (A. 347) (4)

b) How ammonia is detoxified in brain and liver? (A. 338) (4)

Q6. a) Write functional role of (4)

i) Ascorbic acid(A. 136)

ii) Pyridoxine(A. 146)

b) Describe (4)

i) Vitamin K cycle (A. 134)





ii) Metabolic role of Biotin (A. 150)

Q7. Write underlying biochemical defect and clinical features of (8)

a) Von-Gierke's disease (A. 269)

b) Albinism (A. 354)

c) Gaucher's disease (A. 309)

d) Alkaptonnuria (A. 353)

Q8. a) Write laboratory diagnosis of:

i) Liver diseases

ii) Cardiac disease

b) Write short note on functions of plasma proteins (A. 182) (4)

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