

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.

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 β -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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