

**RUHS FIRST YEAR MBBS EXAMINATION****BIOCHEMISTRY- PAPER - I****November 2017 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)  $\beta$  Oxidation and its energetic (A. 288)

b) Atherosclerosis: Risk factor and its preventive measures (A. 317)

Q2. Explain

a) Fate of Acetyl COA (A. 253)

b) Salvage pathway and its associated disorder (A. 393)

c) Biochemical function of vitamin C (A. 136)

d) BeriBeri (A. 139)

Q3. Describe the sources, daily requirement  
biochemical functions and deficiency

manifestation of Vitamin D. (A. 127)

Q4. Discuss

a) Galactosemia (A. 278)

b) Acute phase proteins (A. 186)

**SECTION B**

QS. a) Important specialized products synthesis from tyrosine (A. 346)

b) Components of electron transport chain (A. 224)

Q6. Explain

a) Structural organization of proteins (A. 61)

b) Disorders associated with copper metabolism (A. 419)

Q7. Explain

- a) Competitive inhibition (A. 94)
- b) Isoenzymes of alkaline phosphate (A. 114)
- c) Classification of enzymes (A. 88)
- d) Michaelis constant ( $K_m$ ) (A. 91)

Q8. Discuss

- a) Hemoglobinopathies (A. 201)
- b) Glycaemic index and role of fibres in diet (A. 506)

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