

# RUHS

## First Year MBBS Examination

### I MBBS BIOCHEMISTRY PAPER I

Date: 01-07-2019

Time: 3 hours

Max Marks: 50

*Instructions: 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 1

##### **1.Describe: (10)**

- Outline the main steps of tricarboxylic acid cycle.
- Explain the regulation and energetic of the tricarboxylic acid cycle.

##### **2.Discuss (8)**

- Von Gierke's disease(A.269)
  - Beriberi (A.139)
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- c. Chylomicrons
- d. Essential fatty acids

**3.Discuss** in detail, the dietary sources, biochemical role and deficiency disorders of Vitamin - D. (8)

**4.Discuss** (8)

- a. Uncouplers of electron transport chain
- b. Products of Glycine metabolism (A.344)

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## Section 2

**5.Describe** in detail about metabolism and regulation of Ketone bodies. Add a note on diabetic Ketoacidosis. (8)

**6.Explain:** (0)

- a. Glucose transporters
- b. Reactions catalyzed by PLP

**7.Discuss:** (8)

- a. Nitric oxide
- b. Salvage pathway (A.393)

**8.Write short note on:** (8)

- a. Fate of Pyruvate
- b. Cardiac enzymes
- c. Creatinine clearance
- d. HDL

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