

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)
- Chylomicrons
- 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)

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
