

RUHS

First Year MBBS Examination

I MBBS BIOCHEMISTRY PAPER I

Date: 04-10-2020

hours

Time: 3

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 in detail the pathway of glycolysis and its energetic. Explain the various enzyme inhibitors of glycolytic pathway. (10)
 2. Discuss: $2 \times 4 = 8$ (8)
 - a. Ketone bodies
 - b. Competitive inhibition (A.94)
 3. Discuss: $2 \times 4 = 8$ (8)
 - a. Biochemical role of vitamin D (A. 127)
 - b. Coenzyme functions of pyridoxine and
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riboflavin

4. Explain: $4 \times 2 = 8$ (8)
 - a. Glycosylated hemoglobin
 - b. GOUT
 - c. Structure of insulin
 - d. Electron transport chain

Section 2

1. Describe : $2 \times 4 = 8$ (8)
 - a. Dietary fibers (A.507)
 - b. Glycogen storage diseases. (A.269)
2. Explain: $2 \times 4 = 8$ (8)
 - a. Zinc-biochemical role and deficiency disorders
 - b. Essential amino acids
3. Discuss: $2 \times 4 = 8$ (8)
 - a. Free radicals and their scavenging
 - b. Functions of phospholipids
4. Write shorts notes on: $4 \times 2 = 8$ (8)
 - a. Phenylketonuria (A.352)
 - b. Reverse cholesterol transport
 - c. Products of tyrosine metabolism
 - d. Bile pigments
