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### **RUHS FIRST YEAR MBBS EXAMINATION**

### **BIOCHEMISTRY-PAPER-I**

Jan/Feb 2015 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. Discuss the alternative pathways for glucose oxidation and their significance. 10

Q2. Describe in details

- a) Role of physiological uncoupling proteins in health and disease.
- b) Ketogenesis and its regulation

Q3.

- a) How urea is synthesized in body? Discuss its inherited metabolic defects
- b) Describe catabolism of purines and discuss associated metabolic disorders.
- Q4. Discuss briefly
- a) Carnitine shuttle
- b) PEM
- c) Competitive inhibition
- d) Homocystinuria

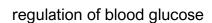
## **SECTION B**

QS. Describe the chemistry, sources & daily requirements, functions and deficiency disorders of vitamin A.

Q6. a) Discuss role of different hormones in the







- b) Describe biochemical and clinical features in different types of porphyrias
- Q7. a) Describe ETC and its inhibitors
- b) Discuss absorption and metabolism of iron
- Q8. Write short notes on
- a) Folate antagonists
- b) Balanced diet
- c) Fluorosis
- d) Antioxidants

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