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RUHS FIRST YEAR MBBS EXAMINATION

BIOCHEMISTRY- PAPER - I

Jan/Feb 2015 TIME: 3 HOURS TOTAL MARKS: 50

INSTRUCTIONS:

 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 A

Q1. Discuss the alternative pathways for glucose

oxidation and their significance. 10

Q2. Describe in details

Role of physiological uncoupling proteins in

health and disease.

b) Ketogenesis and its regulation

Q3.

How urea is synthesized in body? Discuss its

inherited metabolic defects

b) Describe catabolism of purines and discuss

associated metabolic disorders.

Q4. Discuss briefly

- Carnitine shuttle
- b) PEM
- c) Competitive inhibition
- d) Homocystinuria

SECTION B

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QS. Describe the chemistry, sources & daily

requirements, functions and deficiency

disorders of vitamin A.

Q6. a) Discuss role of different hormones in the

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regulation of blood glucose

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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