



**RUHS FIRST YEAR MBBS (Supplementary) EXAMINATION**

**BIOCHEMISTRY- PAPER - I**

**October 2018 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. A) How does diabetes mellitus affect the metabolism of carbohydrates and lipids? Enumerate the cardinal symptoms of diabetes mellitus and the basis of their appearance.

b) Describe the acute and chronic complications of diabetes mellitus. Mention the diagnose and monitor a diabetic patient.

Q2. Explain

- a) Von Gierke's disease
- b) Obesity
- c) Enzymes as diseases markers
- d) Brown adipose tissue tests done to

Q3. What is the normal serum cholesterol level? What are the causes of hypercholesterolemia and its effects? Add a note on measures to reduce cholesterol levels in the blood.

Q4. Discuss

- e) Synthetic nucleotides
- f) Fatty liver and lipotropic factors

Q5. Write short notes on

- a) Role of vitamins as co-enzymes
- b) Hemoglobinopathies

Q6. Explain:

- a) Ammonia toxicity and its detoxification
- b) One carbon metabolism





Q7. Brief answers:

- a) Biochemical functions of vitamin D
- b) Glycolysis in R. B. C.
- c) Competitive inhibitors as drugs
- d) Iron absorption

Q8. Discuss:

- a) Scurvy
- b) Acute intermittent Porphyria

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