

RUHS FIRST YEAR MBBS EXAMINATION**BIOCHEMISTRY- PAPER - I****July 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.

Section A

Q1. Describe source, daily requirement, biological functions and deficiency disorders of Vitamin D

Q2. Explain

- a) Electron-transport chain
- b) Acute and chronic complication of diabetes Mellitus
- c) Risk factor for Atherosclerosis
- d) Essential fatty acids

Q3. Discuss

- c) Type and function lipoproteins
- d) Factor affecting Basal Metabolic Rate

Q4. Write down the diagnostic importance of enzymes.

SECTION B

Q5. Write an account of the degradation of heme to bile pigment. Add a note on jaundice.

Q6. Discuss the following:

- a) Molecular and biochemical explanation for pathogenesis of sickle cell disease.
- b) Fatty liye
- c) Role of Glutathione & NADPH for maintain RBC membrane
- d) Nitrogen Balance

Q7. Write short notes on

- a) Phenylketonuria
- b) Absorption and transportation of B12

Q8. Write notes on Tabular form:

- a) Difference between Competitive inhibition and Non-competitive inhibition
- b) Explain difference in Function of Glucokinase and Hexokinase on bases of it's v_{max} and k_m .
- c) Difference between Kwashiorkor & Marasmus
- d) Difference between hemoglobin and myoglobin

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