

**RUHS FIRST YEAR MBBS EXAMINATION****BIOCHEMISTRY- PAPER - I****August 2017 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 de novo biosynthesis of cholesterol.

Explain its short term and long term regulation. (A. 311) 10

Q2. Discuss

a) HMP shunt & its significance (A. 269)

b) Metabolism of tryptophan (A. 355)

Q3. Describe: 08

a) Biochemical functions and deficiency manifestation of vitamin D (A. 127)

b) Enzyme inhibitions with examples (A. 94)

Q4. Write short note on any four 08

a) Salvage pathway (A. 393)

b) Oxidative phosphorylation (A. 226)

c) Dietary fibers (A. 507)

d) Absorption of iron (A. 417)

e) Functions of vitamin C (A. 136)

Section B

Q5. Describe the process of heme synthesis and its regulation. (A. 208) 08

Q6. Differentiate between any two 08

Q7. Discuss 08

a) Functions of plasma proteins (A. 183)





b) Metabolic disturbances in diabetes (A. 654)

Q8. Write short note on any four

08

a) Biologically active peptides (A. 68)

b) Maple syrup urine disease (A. 367)

c) Product obtained from glycine (A. 344)

d) Biosynthesis of pyrimidins (A. 399)

e) Balanced diet (A. 513)

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