



RUHS FIRST YEAR MBBS EXAMINATION

BIOCHEMISTRY- PAPER - I

August 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.

Section A

Q1. a) Describe the mechanisms that maintain blood glucose level. Enumerate three conditions each for hypo& hyper glycaemia. (A. 646) (5)

b) What are the cardinal symptoms of diabetes mellitus? Explain why they occur. Add a note on chronic complication of diabetes mellitus (A. 654,655) (5)

Q2. a) Describe the biochemical error effects and management of classical galactosemia. (A. 278)

b) Vitamin co-enzymes (A. 99) (4)
process (A. 336)

Q4. a) Activation and actions of calcitriol (A. 127) (4)

b) Lesch-nyhan syndrome (A. 399)

c) Acute phase proteins (A. 186)

d) Transamination (A. 333)

Section B

Q5. a) Describe competitive inhibition of enzymes.

How does it affect enzyme kinetics?(A. 94)

b) Abnormal haemoglobins (A. 201)

Q6. a) Cholesterol transport in the body (A. 314)

b) Polysaccharides present in the diet. (A. 505)

Q7.

a) Fatty liver (A. 324)

b) Proteins energy malnutrition (A. 514)





- c) Obesity (A. 515)
- d) Rapoport-leubering cycle (A. 199)
- a) Iron Overload (A. 419)
- b) Second messengers (A. 432)
- c) Uncouples of oxidative phosphorylation (A. 226)

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