

RUHS FIRST YEAR MBBS EXAMINATION**BIOCHEMISTRY- PAPER - II****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) What is central Dogma of molecular biology? Describe the transcription process in Eukaryotes. Discuss post transcriptional modification in eukaryotes. (A. 523, 539) (4)

Q2. Explain(2X4)

- a) Anion Gap(A. 482)
- b) Telomere and telomerase (A. 530)

Q3. Discuss in detail

- a) Post translation modifications (A. 557)(4)
- b) Genetic Code (A. 547)(4)

Q4. Discuss

- a) Tumour markers (A. 662)(4)
- b) Paraproteinemias (A. 189)(4)

Section B

Q5. a) Structure & functions of immunoglobulin (A. 187) (4)

- a) Discuss the tests based on excretory and synthetic functions of liver. (A. 454)(4)

Q6. a) Define window period in natural course of AIDS. Describe clinical presentation and laboratory analysis of AIDS (A. 666, 669) (4)

- b)Phase - I reactions of Detoxification (A. 614) (4)

Q7. Write short notes on(4X2)

- a) Nucleotide excision repair (A. 536)
- b) Histones (A. 81)

c) Hyperkalaemia (A. 415)

Q8. Give an account of the following: (4X2)

a) Respiratory acidosis (A. 483)

b) SIADH (A.

c) Advantages and disadvantages of creatinine clearance test as GFR marker (A. 462)

d) Alkaline tide

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