

**RUHS FIRST YEAR MBBS EXAMINATION****BIOCHEMISTRY- PAPER - II****August 2011 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. Sequentially describe the steps involved in the synthesis of DNA. How is the genetic information stored in the parent DNA is copied in the daughter DNA(s) with high fidelity? (A. 524)

Q2. Describe briefly (8)

- a) The principle and application of polymerase chain reaction(A. 579) (4)
- b) Role of p- 53 in cancer (A. 661) (4)

Q3. Differentiate between (8)

- b) Arsenate poisoning and lead poisoning (A. 638)

Q4. Write short note on (8)

- a) Formation and utilization of taurine (A. 364)
- b) Role of protein kinases in post translational modification of proteins (A. 557)

**Section B**

Q5. Name various components of immune system. Describe the events which take place in a host's immune system when it receives an antigen till the antigen is destroyed (A. 697, 699) (8)

Q6. a) Discuss glutathione metabolism and its role in destruction of hydrogen peroxide in RBCs (A. 274)

- b) Describe pellagra preventing factors(A. 144) (4+4=8)

Q7. Describe briefly(4+4=8)

- a) Negative water balance (A. 470)
- b) Reverse transcriptase and its significance (A. 546)

Q8. Differentiate between (4+4=8)

- a) Under nutrition and malnutrition (A. 514)
- b) Niemann Pick disease and Tay sack disease (A. 306)

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