

RUHS FIRST YEAR MBBS EXAMINATION**BIOCHEMISTRY- PAPER - II****Jan/Feb 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. Describe recombinant DNA technology and its application.

Q2. Describe in detail

- a) Post-translational modification.
- b) Diseases related to DNA damage

Q3. a) Discuss salient features of codons

b) Discuss Gene therapy & its applications

Q4. Discuss briefly

- a) Multiple Myeloma
- b) Greenhouse effect
- c) Tumor suppressor genes
- d) Cytochrome P- 450

SECTION B

Q5. Discuss regulation of gene expression in prokaryotes with suitable example

Q6. a) Discuss disorders of Acid Base Balance

b) Discuss allergy and hypersensitivity

Q7. a) Biochemical tests employed for the differential diagnosis of Jaundice

b) Discuss transmission & lab diagnosis of AIDS

Q8. Differentiate between

- a) Mutation and polymorphism
- b) Southern and western blotting
- C) Gene cloning and PCR
- d) ELISA and RIA

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