

**Time: Three Hours****Max. Marks: 100 Marks****BIOCHEMISTRY (RS2 & RS3)****QP Code: 1080 – Paper II (Max.Marks:50)**

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

Use separate answer books for section A and Section B**LONG ESSAYS****1 x 10 = 10 Marks**

1. Discuss the process of protein biosynthesis. Name three inhibitors of protein biosynthesis.

SHORT ESSAYS**5 x 5 = 25 Marks**

2. Describe heme synthesis and add a note on its regulation.
3. Describe recombinant DNA-technology. Mention its applications.
4. Define biological value of protein. What do you mean by complementary proteins? Give examples. What is the requirement of protein in diet?
5. Define codon. What are the salient features of a genetic code?
6. List any **three** trace elements with their biological function.

SHORT ANSWERS**5 x 3 = 15 Marks**

7. Mutagens.
8. Okazaki fragments.
9. Provitamins.
10. Cell cycle.
11. Tests to assess renal tubular function
