

**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. Write structure of DNA. Write a note on replication of DNA

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

2. What is the difference between endonuclease and restriction endonuclease? Give **two** examples for endonuclease.
3. What are oncogenes? Discuss two tumor markers and their clinical application.
4. Diagnostic enzymes used in the assessment of different liver functions.
5. Respiratory alkalosis
6. How is uric acid formed in the body? What is Gout? What is the treatment? Explain the basis for the treatment.

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

7. Serum electrophoresis.
8. Types of DNA probes
9. Hb as buffering agent.
10. Vitamin K functions and requirement
11. Point Mutation with 2 examples.

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