

**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. Draw neat diagram of Watson Crick model of DNA, explain its characteristics and the bonds that play a role in the stability of DNA structure.

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

2. Describe salvage pathway of purine synthesis and its significance.
3. What are porphyrias? Mention four porphyrias with the defective enzyme.
4. Explain the role of kidneys in acid base regulation.
5. What is a balanced diet? Discuss the components of a balanced diet.
6. What are the sources of dietary fibers? Discuss the importance of it in nutrition. Outline the functions of proteins.

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

7. Point mutation.
8. Hormones that regulate water balance
9. SDA.
10. Ribosomal RNA.
11. Define anti oxidants and give two examples.
