

**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. What are sources of C & N atoms of purine? Describe the biosynthesis of purine and add a note on its regulation.

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

2. Name the different types RNA. Write their salient features Mention their function.
3. What are buffers? Discuss any **two** buffer system of the body.
4. Give the biochemical functions of niacin with examples and manifestation of its deficiency.
5. What is a restriction endonuclease? Explain their role in recombinant DNA technology.
6. Give an account of phosphorus metabolism.

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

7. Translation and post translational modifications
8. Base pairing rule and Wobble hypothesis.
9. Biochemical defect in Thalassemia.
10. Cause of Scurvy and pellagra.
11. Creatinine clearance test.