

**Time: Three Hours****Max. Marks: 100 Marks****BIOCHEMISTRY (RS2 & RS3)****QP Code: 1079 – Paper I (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. Describe the reactions of glycolysis indicating the enzymes. Add a note on net yield of ATP under aerobic and anaerobic conditions.

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

2. Describe the fate and formation of glycine. List **four** compounds formed from glycine.
3. What are isoenzymes? Explain the clinical significance giving **two** examples.
4. What are nitrogen-producing substances in the body? Explain how they are excreted from the body.
5. Describe the fluid mosaic model of membrane structure.
6. Name the ring structure present in cholesterol. Write the key regulatory step in the synthesis of cholesterol. Name **four** compounds derived from cholesterol.

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

7. Detoxification.
8. Chemiosmotic hypothesis.
9. Von Gierkes disease.
10. Multi enzyme complex.
11. Rappaport-Leubring cycle.

