

**Time: Three Hours****Max. Marks: 50 Marks****BIOCHEMISTRY – PAPER I (RS2 & RS3)****QP Code: 1079**

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

(Note: Both QP Codes 1079 and 1080 are to be, answered within total duration of three hours)**(Use separate Answer books for QP Code 1079 & 1080)****LONG ESSAYS****1 x 10 = 10 Marks**

1. What is Gluconeogenesis? Write the steps involved in formation of Glucose from Alanine? Add a note on its regulation.

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

2. Monosaccharides
3. Products from Arachidonic acid and their function
4. Conjugation in detoxification
5. Chemiosmotic theory of ATP formation
6. Digestion and absorption of lipids

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

7. Functions and markers for Lysosomes
8. Isoelectric pH
9. What are Coenzymes? Mention 3 with their functions.
10. Hyperglycemic hormones and their mode of action
11. Sphingolipids
