

**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. Classify enzymes giving an example with the reaction catalysed.

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

2. Describe the digestion and absorption of lipids.
3. Discuss phenylketonuria under i) enzyme defect. ii) Manifestation. iii) Diagnostic test.
4. What are mucopolysaccharides. Give their importance with examples.
5. Coenzyme form of Vitamin B<sub>12</sub> and its biochemical functions
6. Describe one carbon metabolism. What is its significance?

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

7. Compare and contrast Starch and Glycogen.
8. Essential fatty acids
9. Transport across cell membrane.
10. Melatonin.
11. Polyamines.

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