



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 β -oxidation of fatty acids. Give its energetics and explain the regulation of acetyl CoA in our body.

SHORT ESSAYS

5 x 5 = 25 Marks

2. How is glycogen digested and absorbed? Describe glycogenolysis in the liver.
3. How are bile acid synthesized? Mention **two** functions of bile acids.
4. Describe the conversion of methionine to cysteine. Add a note on homocystinuria.
5. Outline the synthesis of epinephrine and give its functions.
6. Give the coenzyme role of pantothenic acid and its importance

SHORT ANSWERS

5 x 3 = 15 Marks

7. Denaturation of proteins.
8. Uncouplers of oxidative phosphorylation.
9. Reverse cholesterol transport.
10. Bonds stabilizing protein structure.
11. UDP-Glucuronic acid.
