

**FIRST B.N.Y.S. DEGREE EXAMINATION****PAPER I – BIO - CHEMISTRY***Q.P. Code : 821501***Time: Three Hours****Maximum : 100 Marks****Answer All questions****I. Elaborate on:****(2 x 15 = 30)**

1. Describe briefly about the disorders of carbohydrate metabolism, regulation of blood sugar and significance of glucose tolerance test.
2. Explain briefly about the energy metabolism and add a note on
  - a) Dietary habits and diseases.
  - b) Biochemistry of starvation.

**II. Write Notes on:****(10 x 5 = 50)**

1. Biosynthesis of lecithin and cephalin
2. Detoxification mechanisms of liver.
3. Urea clearance and creatinine clearance.
4. Write short on iron metabolism.
5. Biological oxidation.
6. Write a short note on arsenic, mercury and metal toxicity.
7. Regulation of metabolic pathways of carbohydrate.
8. Write note on cyanogobalamine.
9. Metabolism of galactose.
10. Disposal of ammonia.

**III. Short Answers on:****(10 x 2 = 20)**

1. Sources of iron.
2. Classification of minerals.
3. Glycogenolysis.
4. GOUT.
5. Difference between Kwashiorkor and Marasmus.
6. Recommended dietary allowance of vitamin C.
7. Eicosanoids.
8. Amphipathic lipids.
9. Protamines.
10. Ribosomal RNA.

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