

**[LC 1501]
1501**

Sub. Code:

FIRST YEAR B.N.Y.S. DEGREE EXAM – FEBRUARY 2013

Paper I - BIOCHEMISTRY

Q.P. Code: 821501

Time: Three Hours

Maximum: 100 marks

ANSWER ALL QUESTIONS

I.Long Essay:

Marks 2x15=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.Short notes:

Marks 10x5=50

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

III.Short answers:

Marks 10x2=20

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