

February 2012

(LA 4254)

Sub. Code: 4254

FIRST B.PHARM. EXAMINATION

Paper IV – BIOCHEMISTRY

Q.P. Code: 564254

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. (a) Write in detail about the co-enzyme form, biochemical function, deficiency diseases of thiamine.
(b) Discuss the metabolism of calcium.
2. (a) Classify the proteins with suitable examples.
(b) Discuss the reaction of gluconeogenesis.

II. Write notes on:

(8 x 5 = 40)

1. Write down the reaction of β -oxidation.
2. Make a note on the biochemistry of urine.
3. Discuss the functions of Thyroid hormone.
4. Describe any two functional tests of liver.
5. Brief account of genetic engineering.
6. Ketosis.
7. Nucleic acids.
8. Dietary fibers.

III. Short Answers:

(10 x 2 = 20)

1. Structure of Vitamin A.
2. Ketone bodies.
3. Proteinuria.
4. Electrophoresis.
5. Insulin.
6. Macromolecules.
7. Phospholipids.
8. Identification tests for amino acids.
9. Lipids.
10. Anemia.
