

(LI 4254)

FEBRUARY 2016

Sub Code: 4254

**FIRST YEAR B.PHARM. EXAMINATION
PAPER IV – BIOCHEMISTRY***Q.P. Code: 564254***Time: Three hours****Maximum : 100 Marks****I. Essays:****(2 x 20 = 40)**

1. Define and classify Vitamins. Write in detail about the structure, synthesis, functions, sources recommended daily allowances and deficiency diseases of Vitamin A.
2. a) Describe Urea cycle.
b) Explain the Watson & Crick's double helical structure of DNA.

II. Short notes:**(8 x 5 = 40)**

1. Disaccharides.
2. Essential amino acids and Essential fatty acids.
3. Structure and functions of Immunoglobulins.
4. Denaturation of Proteins.
5. Sickle cell Anemia.
6. Vitamin
7. Functions of Hemoglobin.
8. Mechanism of action of Enzymes.

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

1. Name the storage form of Carbohydrate in plants and in animals.
2. Name the Good Cholesterol and Bad Cholesterol.
3. Name the Aromatic Amino Acids.
4. Deamination.
5. Insulin.
6. Glycosuria.
7. Pellagra.
8. Name the Purine and Pyrimidine bases present in the Nucleic acids.
9. Multi enzyme complex.
10. Balanced diet.
