

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. Essay Questions:****(2 x 15 = 30)**

1. Explain briefly about the breakdown of tissue proteins, amino acid pool and general metabolism of amino acids.
2. Briefly explains about the abundant sources, metabolism, transport and deficiency manifestations of calcium and phosphorus.

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

1. Write a note on lipogenesis and synthesis of fatty acids.
2. Urea cycle.
3. Biological importance of peptides and structure of insulin.
4. Short note on structure of protein coagulation and denaturation of proteins.
5. Diagnostic importance enzyme and isoenzymes.
6. Functions of immunoglobulins.
7. Post transcription modification.
8. Formation of glutamate and glutamine.
9. Role of the kidney and lungs in maintaining PH of blood.
10. Active and facilitated diffusion.

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

1. Define composition of triglycerol.
2. Neutral lipids.
3. Co- Factors.
4. Degradation of heme.
5. Difference between the replication and transcription.
6. Ketosis.
7. Sphingolipids.
8. Haemoglobin.
9. Fatty liver.
10. Write a structure of DNA.
