

B.Sc. MEDICAL LABORATORY TECHNOLOGY**FIRST YEAR****PAPER II – BASIC CHEMISTRY***Q.P. Code: 725002***Time: Three Hours****Maximum: 100 Marks****Answer all questions****I. Elaborate on:****(3 x 10 = 30)**

1. Define enzymes. Write about the classification of enzymes with suitable examples.
2. Describe any three basic analytical techniques.
3. Explain in detail about phospholipids and their biological importance.

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

1. Heteropolysaccharides.
2. Hydrolytic products of protein.
3. Cholesterol and its biological importance.
4. Write short notes on enzyme specificity.
5. Distinguish between DNA and RNA.
6. Write about protein energy malnutrition.
7. Explain the theory of calorimetry.
8. Chemistry, biological role and deficiency of vitamin D.

III. Short answers on:**(10 x 3 = 30)**

1. Glycogen.
2. pH.
3. Saponification test.
4. Coenzymes.
5. Nucleotides.
6. Calorific value.
7. Zwitter ion.
8. Define vitamins and their classification.
9. Ninhydrin test.
10. Give the symptoms of marasmus.
