

b

Explain the mechanism of oxidative phosphorylation.

## GIET UNIVERSITY, GUNUPUR – 765022

RD19MSC010 Roll No: Total Number of Pages: 1 AR-19 M.SC M.Sc 1<sup>ST</sup> SEMESTER REGULAR EXAMINATIONS, NOV/DEC 2019-20 LSPC101-BIOPHYSICS AND BIOCHEMISTRY Time: 3 Hours Max Marks: 80 The figures in the right hand margin indicate marks. SECTION A Q.1 Answer any four of the following:  $[4 \times 4 = 16]$ Ionic bond b Cyclic photophosphorylation Biological importance of pH Ramachandran plot d e Diffusion Classification of enzymes f OR 2. Answer all questions from the following  $[8 \times 2 = 16]$ Lyophobic colloids b Structure of amino acid Peptidoglycans c d Cellulose e Ultrafiltration f Dipole moment Peptide bond g h Tyndall effect **SECTION-B** 3. Answer all Questions:  $[4 \times 16 = 64]$ What are colloids? Describe the properties of colloids. a OR b Explain about different intermolecular forces present in biological system. 4. Write the structure and composition of plasma membrane. Explain how transport a occur across this membrane? OR b Describe how the principles of thermodynamics work in biological system? 5. What are enzymes? Describe the mechanism of enzyme action. a OR b Describe the double helical structure of DNA. 6. Give an account of fatty acid oxidation. OR