

IKUOMIOLA ESTHER OLATUNGBI

181115061029

MEDICAL LABORATORY SCIENCE

Clinical Biochemistry AND X-RAY BIOLOGY

BC11 202

Question

is Vitamin C a Coenzyme? Justify your answer.

Yes it is a Coenzyme required for the functioning of several enzymes (prolyl-3-hydroxylase, lysyl-4-hydroxylase and lysyl hydroxylase) that are required for the hydroxylation of proline and lysine in the synthesis of collagen; it is also a cofactor of a family of biosynthetic and gene regulatory monooxygenase and dioxygenase enzymes.

2) Describe the chemistry of phospholipids; Differentiate between phospholipids and glycolipids

phospholipids consist of a glycerol molecule, two fatty acids and a phosphate group that is modified by an alcohol. The phosphate group is the negatively-charged polar head, which is hydrophilic. The fatty acid chains are the uncharged, nonpolar tails, which are hydrophobic.

phospholipid

glycolipid

1. Consist of a glycerol molecule which joined the fatty acids and phosphate group together.

they are lipids with a carbohydrate attached by a glycosidic bond

2. As a major component of all cell membrane and form the lipid bilayer because of their amphiphilic characteristic.

found on the surface of all eukaryotic cell membrane where they extend from the phospholipid bilayer into the extracellular environment