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**Assignment Title:** vitamins and coenzymes, Lipids  
**Course Title:** General Biochemistry II  
**Course Code:** BCH 202

1) Vitamin c is not a coenzyme but it can be used as a an antioxidant.

2) **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.

3)

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| Glycolipids | Phospholipids |
| They are lipids that contain carbohydrate | They contain phosphate |
| They contain a hydrophobic head and a hydrophobic tail | They contain a hydrophobic head and 2 hydrophobic tails |
| They are a type of sphingolipids | They contain phosphate groups |
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