DAVIES BISOLA, MICROBIOLOGY, 18/SCI05/004, BCH202 ASSIGNMENT

1. A) The body uses it to build the structure of cell membranes B) It helps the body to produce vitamin D C) It helps metabolism work efficiently D) The body uses it to make hormones such as testosterone, oestrogen and adrenal hormones.

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| GLOBOSIDES | GANGLIOSIDES |
| They are not derived from glucocerebosides | They are derived from glucocerebosides |
| They lack sialic acid | They have one or more sialic acids |
| Their side chain can be cleaved by galactosidases and glucosidases | Their side chain cannot be cleaved by galactosidases and glucosidases |

1. Phosphatidylcholine
2. B

5. A)They are amphiphilic (have both hydrophilic and hydrophobic parts) B) They are glycerol based phospholipids that contain 2 molecules of fatty acids, a phosphate group and an alcohol C) They are amphoteric ( They have polar and non polar groups)

6.

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| TRIACYLGLYCEROL | PHOSPHOGLYCERIDES |
| They have glycerol and three fatty acids E.G, (C55H98O6) | They have glycerol, two fatty acids and a phosphate group |
| They have more flexible chemical structures | They have more rigid chemical structures |