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ANSWERS

1. IMPORTANCE OF CHOLESTEROL

- a. Cholesterol is a poor conductor of heat and electricity
- b. Cholesterol acts as an insulating cover for the transmission of electrical impulses in the nervous tissue
- c. Cholesterol is an important component of membrane structure
- d. It also functions in the synthesis of bile acids.

2. Globosides are type of glycosphingolipid with more than one sugar as the side chain while a gangliosides are glycosphingolipid that have multiple sugar in addition to at least one sialic acid.

3. Methylated form of phosphatidyl ethanolamine is called phosphatidylcholine.

4. The ring of cholesterol molecule which contain a double bond is between carbon 5 and carbon 6.

5. PROPERTIES OF PHOSPHOGLYCERIDES

- a. Phosphoglycerides have two fatty acid chain, glycerol and phosphate ester.
- b. Phosphoglycerides are amphiphilic in nature as they have hydrophobic and hydrophilic parts
- c. Phosphoglycerides are amphoteric bearing both negatively and positively charged group.

6.

DIFFERENCES BETWEEN TRIACYLGLYCEROLS AND PHOSPHOGLYCERIDE	
TRIACYLGLYCEROLS	PHOSPHOGLYCERIDE
I. They have three fatty acid chains	They have two fatty acid chains
II. It functions in energy storage	It forms the membrane component
III. It has alcohol group	In addition to an alcohol group, it has a phosphate group.

Examples of phosphoglycerides are phosphatidylcholine, phosphatidylethanolamine, phosphatidylinositol.

Examples of triacylglycerols are stearin, palmitin.