

**Biology 250 – Cell Biology**  
**Module 2, Homework 1 (Chp. 7)**

Name: \_\_\_\_\_

1. Describe the composition of a eukaryotic plasma membrane in terms of the two major classes of lipid molecules that constitute it, and the general arrangement of these molecules in a bilayer.

The eukaryotic membrane is composed mainly of phospholipids (phosphoglycerides and sphingomyelin are major classes) and sterols. The phospholipids form a layer with their hydrophilic head groups aligned and their fatty acyl tails aligned. This layer is abutted by a second layer in the same configuration, but with tail-to-tail orientation of the two layers such that the head groups face outward toward the aqueous environment and the hydrophobic tails face inward. Sterols, such as cholesterol, reside in the hydrophobic interior of this bilayer.

2. Define the meaning of the terms "exoplasmic face" and "cytoplasmic face" as they relate to the lipid bilayer leaflets in the plasma membrane.

The cytoplasmic face is oriented with head groups facing inward toward the cytoplasm, while the exoplasmic face is oriented in the opposite direction with head groups facing toward the extracellular space.

3. When a vesicle buds inward from the plasma membrane by endocytosis, there is a change in the orientation of the exoplasmic and cytoplasmic faces of the bilayer with respect to the material enclosed by that bilayer. The enclosed material would be the entire cytoplasm itself in the case of the plasma membrane, or the lumen in the case of an endocytosed vesicle. Describe this change in bilayer leaflet orientation.

When inward vesicle budding is complete, the cytoplasmic face of the membrane is on the outermost surface of the vesicle, facing the cytoplasm that now surrounds it. The exoplasmic face is oriented inward, facing the contents of the vesicle (formerly extracellular material).

# Human Biology Study Guide Answer Key

**EW Minium**



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