1. Which of the following statements is NOT correct regarding phospholipids? A phospholipid…

a. will rapidly flip from one leaflet to the other leaflet of the lipid bilayer.
b. is the most abundant lipid in the cell membrane.
c. has a hydrophilic head group and hydrophobic hydrocarbon tails.
d. will randomly move laterally within a leaflet of the lipid bilayer.

2. Which of the following would produce the MOST fluid lipid bilayer?

a. phospholipids with fully saturated tails of 20 carbon atoms.
b. large amounts of cholesterol.
c. phospholipids with fully saturated tails of 18 carbon atoms.
d. phospholipids with tails of 18 carbon atoms and two double bonds.

3. A researcher has identified an enzyme in the membrane that moves phospholipids, only in one direction, from the cytosolic leaflet to the non-cytosolic leaflet. This enzyme…

a. is a flippase.
b. is a scramblase.
c. has the combined activity of a scramblase and flippase.
d. is not a scramblase or flippase.