(5pts) Explain in words or diagram(s) the structure of a cell plasma membrane and the physiological significance of this conformation.

Amphipathic system with hydrophilic heads and hydrophobic tails together with different integral proteins intermixed. This allows transport of specific molecules through yet at same time keeps out others. It also allows a reasonably close interaction between cell organelles by providing a limited area.

(3pts) How did Christopher Columbus use the integration of concepts to discover America?

He used the integration of concepts by stating that the world is round and that the far east is on the other side of the world and if I sail east I will eventually run into China or Asia. Instead he hit America first. This integration of concepts was knowing 2 facts and using them together.

(2pts) Briefly explain homeostasis.

This is the body's use of systems to maintain the status quo of the body.