ESS 200 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Quiz Review: Pressure, Buoyancy, Temperature

. Right now we are experiencing ordinary atmospheric air pressure. What causes air pressure?

. Describe how air pressure changes with changing altitude (ascending or descending), and explain why air pressure changes in this way.

. At sea level, how much force does average air pressure exert on 1 square inch of surface area?

. Explain what happens to a human’s ear drum as the human changes rapidly in elevation. You should be able to do this for a rising or descending human. Pick one direction (ascending or descending). Then explain what happens to the ear drum and explain why.

. Use words and a picture to show why a suction cup can stick to a surface.

. What is buoyancy? What causes it?

. Less dense objects rise. *Why* do they rise?