

1) Why is it difficult to hold a school bag having a strap made of a thin and strong string?

ANS → Because the pressure on the shoulders is quite large. This is because the pressure is inversely proportional to the surface area on which the force acts.

2) What do you mean by buoyancy?

ANS → Force applied by the fluid on a solid which is partially or fully submerged in liquid is called buoyancy.

3) Why does an object float or sink when placed on the surface of water?

ANS → An object sinks in water if its density is greater than that of water. An object floats in water if its density is less than that of water.

4) You find your mass to be 42 kg on a weighing machine. Is your mass more

or less than 42 kg?

ANS-) The weight machine measures this apparent weight and hence the mass indicated by it is less than the actual mass. Our actual mass will be more than 42 kg.