WORKSHEET BASED ON MODULE-5

1. State the Archimedes principle.

2. Define the density?

3. Give the value of density of water at 4^0 c .

4. Define relative density.

5. What is SI unit of Relative density? Justify your answer.

6. If an object having relative density 2.1 then will it sink or float? Justify your answer.

7. Explain why buoyant force is a vector quantity.

8. Why does an object float or sink when placed on the surface of water?

9. Relative density of metal is 9.6, The density of water is 10^3 kg m^{-3}. What is the density of metal in SI unit?