Floating and sinking, Principle of floatation, application of floatation.

CLASS-VIIIC(RANK UP)

SUBJECT : PHYSICS
CHAPTER NUMBER: 2
CHAPTER NAME : PHYSICAL QUANTITIES AND MEASUREMENT

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NUMERICAL

1. The mass of 10 cm^3 of silver is 103 gm. Find
(a) The density of silver in kg/m^3
(b) Relative density of silver.

2. A piece of wood of mass 150 g has a volume of 200 Cm^3. Find the density of wood in C.GS. unit and S.I. unit.

3. How does the density of a liquid (or gas) vary with temperature?

4. Define the term relative density of a substance. What is the unit of relative density?

5. How does the density of a body and that of a liquid determine whether the body will float or sink into that liquid?

6. What is the law of floatation?

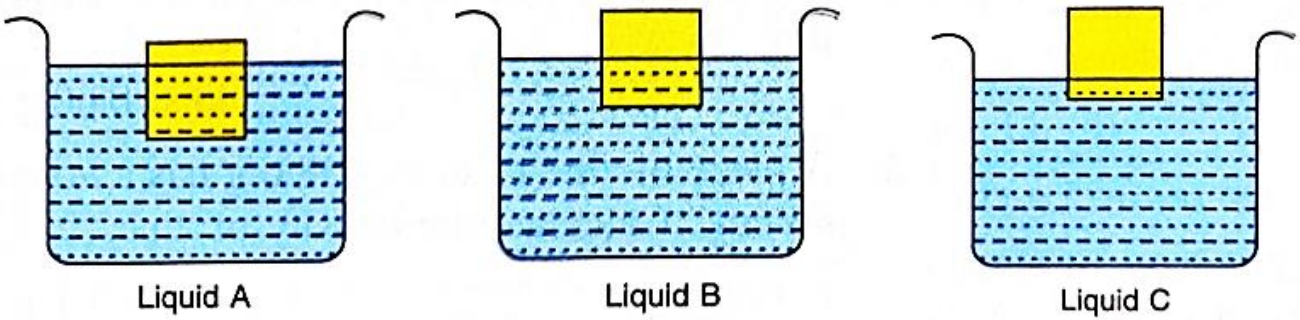
Numerical

Question: The diagram given below shows a body floating in three different liquids A, B and C at different levels.

(a) In which liquid does the body experience the greatest buoyant force ?

(b) Which liquid has the least density ?

(c) Which liquid has the highest density ?



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