



PHYSICS

BOOKS - VGS PUBLICATION-BRILLIANT

FLOATING BODIES

Conceptual Understanding

1. A solid sphere has a radius of 2 cm and a mass of 0.05 kg. What is the relative density of the sphere ?



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2. An ice cube floats on the surface of a glass of water ($\text{density of ice} = 0.9 \text{ g/cm}^3$). When the ice melts will the water level in the glass rise ?



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3. Why do some objects float on the water ?
And some sink ?



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4. Explain density and relative density and write their formulae



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5. What is the value of density of water ?



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1. Which is denser, water or milk ?



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2. Iron sinks in water, wood floats in water. If we tie an iron piece to the same volume of wood piece, and dropped it water, would it sink or float ? Make a guess and find out whether yours gucess is correct or wrong with an experiment. Give reasins.



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Application To Daily Life Concern To Biodiversity

1. Write any one application of Pascal's principle in daily life.



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Try These

1. Find the pressure at a depth of 10 m in water in water if the atmospheric pressure is 100 kPa.

$$[1Pa = 1N/m^2] [100Kpa = 10^5 N/m^2 = 1atm.]$$



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Questions Given In The Lesson

1. Which objects float in kerosene ?



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2. Which objects sink in kerosene but float on water ?



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3. Which objects sink in water ?



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4. Why did different objects behave differently ?



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5. What is the relative density of wood ?



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6. What is the relative density of glass ?



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7. Which is denser, rubber or plastic ?



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8. Which is denser. Wood or cork ?



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9. Classify the above materials as denser than stone and less denser than the stone.



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10. If we put a wooden block in kerosene, will it float or sink ? Give reasons for your answer.



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Essential Material For Examination Purpose 2 Mark Questions

1. Why does the wooden block float on water even though it is heavier than a marble ?



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2. What do we mean by 'heavy' what do we mean by 'light' ?



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3. Relative density of silver is 10.8 What is density of silver in S.I. unit ?



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4. Why does a block of plastic released under come up to the surface of water ?



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Previous Summative Assessments Bits

1. A solid sphere has a radius of 2 cm and a mas of 0.05 kg. What is the relative density of the sphere ?

A. 1.39

B. $1.39\text{kg} / \text{m}^3$

C. 1.49

D. $1.46\text{kg} / \text{m}^3$

Answer: C



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