Physics (New Book) - 9th Class Physics English Medium Chapter 6 Preparation

Q1. Which factors contribute the difference in density between substances.

Ans 1: The differecne in the density between substances is due to differecne in molecular size, mass and the spacing between molecules.

Q2. What ensures the definite volume of solids.

Ans 1: The strong intermolecular forces tightly bind the molecules, ensuring that solids have a definite volume.

Q3. Define Density Write its formula and unit.

Ans 1: Define:
Density of a susbstance in defined as its mass per unit volume.
Formula:
Density= mass of substance/volume of that substance
Unit:-
SI unit of density is kilogramme per cubic meter
Density Equaitons:
Density= mass/ volume

Q4. Why is atmospheric pressure used as a weather indicator.

Ans 1: Changes in atmospheric pressure can indicate weather conditions, such as rain or clear skies.

Q5. Define the term pressure write its formula and unit.

Ans 1: Define:
the force acting normally per unit area on the surface of a body is called pressure.
Formula:
P = Force/ Area
Quantity:
Pressure is a scalar and derived quantity.
Unit:
In SI units, the unit of pressure in N m2 also called Pascal thus, 1 N m2 = 1 Pa

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Q6. What units are used to measure atmospheric pressure.

Ans 1: Atmospheric pressure is commonly measured in pascal atmospherere and milibar

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Q7. What happens to a spring when a deforming force is applied.

Ans 1: The spring either extend or compresses

Q8. How can atmospheric pressrue be observed.

Ans 1: ATmospheric pressrue can be observed by removing air from closed vessels showing the force exerted by the surrounding air.

Q9. Why the edge of chopper is made very sharp.

Ans 1: The edge of the blade of a chopper is made very sharp because, we apply force on the handle of the chopper to cut an object, teh pressure on the object, at the contact surface, due to its small area becomes very high and the object is eeasily cut.

Q10. Whatt is use to measure the pressure in motor car tyres.

Ans 1: Air pressure guage which is used to measure the pressure in motor car tyres.
