Physics (New Book) - 9th Class Physics English Medium Chapter 7 Preparation

Q1. Comment on the statemetn, A thermometer measures its own temperature.

Ans 1: A thermometer measures the temperature of substance not its own temperature. It measure the temperature of an external object or environment.

Q2. What is plasma composed of.

Ans 1: Plasma is composed of ionized atoms, containing positive ions and free electrons.

Q3. Why solids have a fixed volume and shape according to particle theory. of matter.

Ans 1: Solids have fixed volume and shape because their particles are closely packed and have a fixed position in space, with strong forces holding them together.

Q4. What happens to the shape of a liquid in a container.

Ans 1: A liquid acquires the shape of its containing vessel due to the free motion of its moleculeules.

Q5. Define Internal Energy

Ans 1: The sum of kinetic and potential energies of the molecules of an object is called its internal energy

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Q6. What are the reasons that gases have neither a fixed volume nor a fixed shape.

Ans 1: Gases have neigther fixed volume nor a fixed shape beacuse.
i. Molecules are widely spaced.
ii. Molecues are free to move
iii. Weak intermolecular forces.

Q7. Can you feel your fever by touching your own forehead? Explain.

Ans 1: No, you cnat feel fever by touching your own forehead. This is because your hand is at the samed temperature as your forehead, so you won't be able to detect the heat.

Q8. What do liquids have adefinite volume.

Ans 1: Liquids have a defnitie volume becasue the intermolecular forces are strong enough to keep the molecules close together.

Q9. Difference between Temperature and Heat

Ans 1: Temperature:-
Temperature of a body is define das degree of its hotness or coldness
It is denoted by T
its SI unit is Kelven

Ans 2: Heat:
Heat is the form of energy which is tranferred from one object to another due to difference of temperature between the two bodies
Its quantity is denoted by Q
Its unit is Joule

Q10. What is teh effect of raisng the temperture of a liquid.

Ans 1: Raising the temperatur eof a liquid increases the kinetc energy of its particles, causing tham to move faster and spread out, eventually turning into vapours form