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

Q1. Why cannot molecules in solid move freely.

Ans 1: Molecules in solids cannot move freely becuse the strong intermolecular forces keep then bound at fixed positions.

Q2. Which factors determine the temperature of a sustance.

Ans 1: The temperature of a substancd depends upon the avarge kinetic energy of its molecular.

Q3. How does heat contribute to the existacne of living being.

Ans 1: Heat is necessary for life processes, such as metabolism and growth, in living organisms

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Q4. When you touch a cold surface, does cold travel from the surface to your hand or does energy travel from your hand, to cold surface.

Ans 1: When you touch a cold surface heart flows from your hadn to the cold surface.

Q5. What makes the scale reading of a thermometer accurate.

Ans 1: a thermometes accuracy depends on proper calibraion, consistent thermometric properties high quality materials and clear scale markings.

Q6. What is menat by sensitivity of a thermometer.

Ans 1: The sensitivity of a thermometer is its ability to detect small temperatur changes indicated by a noticeable response in its thermometric property.

Q7. Give two examples of plasma in natur eand gtechnology.

Ans 1: Plasma is found in the Sun and Stars, and in plasma TVs and gas discharge tubes

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Q8. How do gas molecules differ from liquid or solid molecules.

Ans 1: Gas molecules are much farther apart than liquid or solid molecules, allowing for free movement in all dirctions.

Q9. Distinguish between the heat and internal energy.

Ans 1: Heat:
Heat is energy transferred due to temperature differecne Heat is a process.

Internal Energy
While internal energy is the total energy stored within a system and internal enrgy is a state function.

Q10. Why do liquids have a definite volume.

Ans 1: Liquids have a definite volume beacuse the intermolecular forces are storng engough to keep the molecules close together.
