

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

Q1. What measurements do you suggest to conserve energy in houses

Ans 1: Measurements to conserve energy

We should switch off extra electric equipment's in order to conserve energy in houses

The use to LED lights can also conserve electricity.

Q2. Define conduction with example.

Ans 1: Conduction: The mode of transfer of heat by vibrating atoms and free electrons in solids from hot to cold parts of a body is called conduction heat. Example: All metals are good conductors of heat.

Q3. Differentiate between conductors and insulator

Ans 1: Conductors: A conductor easily transfers energy in the form of electricity and heat

Good conductors are used when quick transfer of heat is required through a body Thus cookers, cooking plate etc.

Metal boxes are used for making ice, ice cream etc

Ans 2: Non-Conductor: Non-conductor does not easily transfer of energy in the form of electricity and heat

Ceiling of rooms is covered by insulating materials because transfer of heat is low

Insulators or non-conductors are used in home utensils such as handles of sauce-pans hot plates, spoon etc, They are made up of wood or plastic.

Q4. Why metal are good conductors of heat?

Ans 1: Metals are good conductors of heat because they have free electrons. These free electrons move with very high velocities within the metals. They carry energy at a very fast rate from hot to cold parts of object.

Q5. What are the actors on which rate of emission of radiation depends

Ans 1: The rate at which radiation are emitted depends upon various factors such

Color and texture of the surface

Surface temperature

Surface area

Q6. Define rate of flow of heat

Ans 1: The amount of heat that flow in unit time is called rate of flow heat

Ans 2: Unit: Its unit is js

Q7. How many sides of a Leslie cube are

Ans 1: A shining silvered surface, A dull black surface, A white surface, A coloured surface

Q8. Write any two measures to save energy

Ans 1: Hot water tanks are insulated by plastic or foam lagging Wall cavities are filled with plastic foam or mineral wool Ceiling of rooms is covered by insulating materials ceiling

Q9. What is the effect of length of the solid on thermal conductivity

Ans 1: Length of the solid: Large is the length between the hot and cold ends of the solid more time it will take to conduct heat to the colder end and smaller will be the rate of flow of heat Thus

Q10. What happens when burner removed under beaker

Ans 1: When the burner has removed under the beaker gets hot, it expands, becomes lighter and rises. While the cold but denser water moves downward to take its place.
