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

Q1. What is thermal conductivity

Ans 1: Thermal conductivity: The rate of flow of heat across the opposite face of a meter cube of a substance is called thermal Conductivity of the substance

Ans 2: Unit: Wm k

Q2. Why transfer of heat in fluids takes place by convection?

Ans 1: In fluids , molecules are not tightly packed. they can easily move from one place to another and convection is done by actual movement of molecules from hotter to colder part.

Q3. Define the of flow of heat and write its mathematical form.

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

Ans 2: Formula: Rate of flow of heat
Unit: js1

Q4. Explain the impacted of treehouse effect in global warming

Ans 1: Earth atmosphere contains Co2 and water vapors It causes greenhouse effect and thus retains the temperature of Earth by trapping more heat due to green house effect This phenomenon is called global warming.

Q5. What is meant by global warming

Ans 1: Global warming: An increase in the average temperature of Earth by trapping more heat due to greenhouse effect effect is called global warming

Ans 2: Cause of Global warming: The man cause of global warming is the percentage increment in the carbon dioxide gas in atmosphere

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Q6. Define rate of flow of heat?

Ans 1: The amount of heat that flows in unit time is called rate of flow heat. Rate of flow of heat = Q/t Unit: Its unit is Js-1

Q7. Which surface is good absorber and which is poor absorber of heat

Ans 1: A dull black surface is a good absorber and a polished surface is poor absorber of heat

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Q8. Why bottoms of cooking pots are made black

Ans 1: The bottoms of cooking pots are made black because the capacity to absorb heat is enhance through it A black or rough surface absorbs more heat as compare to a white or polished surface

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Q9. Why bottom of cooking pots are made black?

Ans 1: Bottoms of cooking pots are make black because the blank surface is a good absorber of heat so food cook quickly.

Q10. Described an experiment of convection.

Ans 1: Taken a beaker and fill two third of it with water Heat the beaker by keeping a burner below it Drop two or three crystals of potassium permanganate in the water It will be seen that cultured streaks of water formed by crystals move upward above the flame and then move downward from side ways. These coloured streaks show the path of currents of liquid

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