

Kew
26/11/21

HEAT

① What do you understand by thermal expansion of a substance?

Ans) The increase in size of a body on heating is called thermal expansion.

② Why do telephone wires sag in summer?

Ans) Since metals expand with a rise in temperature, therefore telephone wires sag in summers. The wires are left a bit loose otherwise in winters they would contract and break.

③ Iron rims are heated before they are fixed on the wooden wheels. Explain the reason.

Ans) As metals after heating when cooled down they contract that's why when the heated rim is fitted on the wheel and when it cools down it contracts and makes a tight fit on the wheel.

Q) Why are gaps left between successive rails on a railway track?

Ans) The reason is that the rails expand in summer. The gap is provided to allow for this expansion. If no gap is left, the expansion in summer will cause the rails to bend aside which may result in great damage.