

HEAT AND TRANSFER OF HEAT

1. What is heat? List some effects of heat?
2. The expansion in all solids of equal size when their temperature is increased by the same amount is the same. Do you agree?
3. What is temperature? At what temperature are the readings on the Celsius and Fahrenheit scales the same?
4. Why does clinical thermometer range from 37 c to 42 c?
5. What does a bimetallic strip consist of?
6. What do you mean by upper fixed point?
7. A steel bridge expands in summer. What precautions are taken to make sure this expansion does not damage the bridge.
8. Why does a clinical thermometer have a kink in its stem?
9. Calculate the temperature at which the reading on the Fahrenheit scale is double the reading on the Celsius scale.
10. Why do woollen clothes keep us warmer in winter than cotton clothes?
11. What is the function of the polished curved surface at the back of the heating rod in a room heater?
12. Describe the process of convection of heat?
13. In places with hot climate, it is advised that the outer walls of houses be painted white. Explain why?
14. What are land breeze and sea breeze?
15. Why are cloudy nights warmer than clear night?