

Board – ICSE

Class – 8<sup>th</sup>

Topic – Heat

1. Give reasons for the following.
  1. On supplying the same amount of heat to equal quantities of water and milk, their temperature rises by different amounts.
  2. Water cannot be used as a thermometric liquid.
  3. During summer, people use earthen pots to get cool water.
2. (a) Define heat energy.  
(b) How does heat energy flow from one body to another body?
3. State three factors which determine the quantity of heat energy in a body.
4. Define the term specific heat capacity and state its units.
5. Explain the formation of land and sea breezes.
6. What do you understand by the term latent heat of vaporisation?  
Support your answer with an example.
7. Define the following terms.
  1. Fusion
  2. Solidification
  3. Melting point
  4. Freezing point
  5. Vaporisation
8. Explain how the human body maintains a constant temperature of about 98.4°F even when the outside temperature may be as 110°F.
9. State three factors on which the evaporation of a liquid depends?
10. What do you understand by the term latent heat of fusion? Support your answer with an example.
11. (a) Define (i) calorie (ii) kilocalorie.  
(b) Name the unit in which heat energy is measured these days.  
(c) How many joules are equal to one calorie?
12. What do you understand by the term thermal capacity? State its units?
13. Why is water used as a coolant in the radiators of motor car engines?
14. What is evaporation?
15. State three differences between evaporation and boiling.