

**Multiple choice questions**

1. The form of energy that flows from a hot object to a cold object is called  
(a) Temperature (b) Thermometer (c) heat (d) light
2. The degree of hotness or coldness in a substance is called  
(a) Temperature (b) Thermometer (c) heat (d) light
3. The transfer of energy between objects that are in physical contact is by  
(a) conduction (b) convection (c) radiation (d) evaporation
4. Which of these is a conductor of heat?  
(a) Wood (b) paper (c) copper (d) plastic
5. The device used for measuring temperature is called  
(a) tachometer (b) odometer (c) thermometer (d) barometer

**Fill in the blanks.**

1. The \_\_\_\_\_ in a thermometer prevents the backflow of mercury into the bulb.
2. The boiling point of water in the Celsius scale is \_\_\_\_\_.
3. Dark colours are good \_\_\_\_\_ of heat.
4. The handles of the cooking utensils are made of materials that are \_\_\_\_\_.
5. In liquids and gases, heat is transferred by the process of \_\_\_\_\_.
6. Air is a \_\_\_\_\_ conductor of heat whereas copper is a \_\_\_\_\_ conductor of heat.
7. In solids, heat is transferred by \_\_\_\_\_.
8. The freezing point of water in Celsius scale is \_\_\_\_\_.
9. The heat from the sun reaches on the earth by the process of \_\_\_\_\_.
10. A \_\_\_\_\_ thermometer is used to measure body temperature.

**Give Reasons for the following**

1. Outer walls of houses in hill stations are painted in dark colours.
2. Bottoms of frying pans are made of copper.
3. Exhaust fans are installed high up near the ceiling of the kitchen.
4. Mercury is used in thermometers.
5. We feel warmer when we take two or more thin blankets in place of a thick blanket

**Answer the following**

1. What is temperature? What is the normal temperature of human body?
2. Write the precautions taken while reading a clinical thermometer.
3. What is the temperature range of clinical thermometer and laboratory thermometer?
4. What is transfer of heat? Name three modes of heat transfer.
5. Write the similarities and differences between a clinical thermometer and laboratory thermometer.
6. What is the freezing point and boiling point of water in Celsius scale?
7. What is conduction? Explain with an example.
8. Write an activity to show that heat transfers in a metal. Draw diagram.
9. How are Sea breeze and Land breeze formed?
10. What is convection? Explain with an example.
11. Write an activity to show convection.
12. What is the use of kink in a clinical thermometer?
13. What is neutralization? Explain with an example and write an equation.
14. What is the effect of china rose indicator on acidic and basic solutions?
15. Give two examples of neutralization in everyday life.
16. What should you apply if an ant sting and why?
17. What should a farmer do if the soil of his field is acidic?
18. Where is a litmus paper obtained from? What is the use of litmus paper?