

Worksheet 3
Class 7
Chapter-4
Heat and Temperature

1. Define the following terms:

- i. Heat
- ii. Temperature
- iii. Conduction
- iv. Convection
- v. Radiation

2.Fill in the blanks

- a. A reliable measure of the hotness of an object is its_____
- b. The range of a clinical thermometer in Celsius scale is_____ & in Fahrenheit is_____
- c. The range of laboratory thermometer is_____
- d. _____ thermometer does not use mercury.
- e. Heat is transferred in liquids by_____
- f. We receive heat from sun by_____
- g. Heat travels through solids by_____
- h. The maximum and minimum temperatures of the previous day, reported in weather reports, are measured by the thermometer called _____ thermometer.

3. What is the normal temperature of human body in °C & °F?

4. Why is mercury used in thermometers?

5. What precautions should be observed while reading a clinical thermometer?

6. What precautions should be observed measuring temperature with a laboratory thermometer?

7. Give reason why :-

- a) Rooms are provided with ventilators & exhaust fans near top of side walls.
- b) It is advisable to place room heaters at the ground level for effective heating.
- c) Air conditioners should be installed at the top windows.

8. Shopkeepers while selling ice blocks, usually cover them with jute sacks. Explain why.

9.Explain sea breeze and land breeze with the help of a diagram.

10.Why is the box of solar cooker painted black from inside?

11.UnJumble the following jumbled Words

- a. oocdnctiu
- b. mrehmeeottr
- c. tuermrtpeea
- d. atruolnsl

12.A marble tile would feel cold as compared to a wooden tile on a winter morning, because the marble tile

- (a) is a better conductor of heat than the wooden tile.
- (b) is polished while wooden tile is not polished.
- (c) reflects more heat than wooden tile.
- (d) is a poor conductor of heat than the wooden tile.

13.What are the two conditions necessary for the conduction of heat?

14.Identify which one are good conductor and poor conductors of heat

- a. Water
- b. Copper
- c. Air
- d. Plastic
- e. wood
- f. Iron
- g. Aluminium