

CHAPTER : 3 HEAT

Worksheet

1. During winters, the marble floor becomes very cold while the wooden floors do not. Why?
 - a. Wood is a better conductor of heat than marble
 - b. Marble is more polished than wood
 - c. Wood reflects more heat than marble.
 - d. Wood is a poor conductor of heat compared to marble
2. Smita was making curd from warm milk. Since it was a cold night, she wrapped the curd container in layers of cloth to keep it warm. The container remained warm because:
 - a. cloth is a good conductor of heat
 - b. The cloth was at a higher temperature than the surroundings.
 - c. air trapped between the layers of cloth and air is a bad conductor of heat.
 - d. friction between the layers of cloth produced heat.

II. Give one or two words for the following:

1. A thermometer that has a scale from 35°C to 42°C .
2. Substances used in thermometers to measure the temperature of the body.
3. Materials that do not allow heat to pass through them easily.

III. Answer the following questions:

1. Discuss why wearing more layers of clothing during winter keeps us warmer than wearing just one thick piece of clothing.
2. Convert the given temperatures:

- a. 150°F into $^{\circ}\text{C}$
- b. 32°C into $^{\circ}\text{F}$
- c. 200 K into $^{\circ}\text{C}$

3. A laboratory thermometer A is kept 7 cm away on the side of the flame while a similar thermometer B is kept 7 cm above the flame of a candle as shown in figure.



B



A



4. Shopkeepers selling ice blocks usually cover them with jute sacks. Explain why.

5. Draw a mind map of the chapter- Heat.