

**SCIENCE  
CLASS – 7**

**PREMID TERM REVISION WORKSHEET 4**

**CHAPTER – HEAT**

**Multiple choice questions**

1. When two objects are in thermal contact, how is the heat from one body to the body transferred?

- a. Conduction.
- b. Convection.
- c. Radiation.
- d. Expansion.

2.. Why are tea cups never made of metals?

- a. Metals are shiny.
- b. Metals are expensive.
- c. Metals are good conductors of heat.
- d. Metals have high melting point.

3. Rooms are fitted with ventilators to let hot air out. What is the phenomenon involved in this?

- a. Conduction.
- b. Convection.
- c. Radiation.
- d. Expansion.

4. Why do solar panels have black surfaces?

- a. They are good absorbers of heat.
- b. They are bad absorbers of heat.
- c. They are good reflectors of heat.
- d. They are bad radiators of heat.

5. X is the mode of transmission of heat that takes place by the movement of hot particles. Identify X.

- a. Conduction.
- b. Convection.

- c. Radiation.
- d. Expansion.

**Fill in the blanks based MCQ**

6. We receive heat energy from the sun through \_\_\_\_\_ mode of transmission.

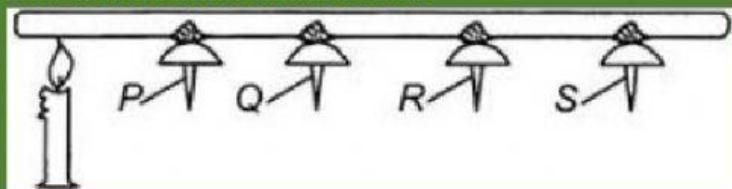
- a) conduction.
- b) convection.
- c) radiation.
- d) insulation.

7. The movement of cold air from sea towards land during the daytime is called \_\_\_\_\_.

- a. Air breeze
- b. Sea breeze
- c. Land breeze
- d. None of these.

**Case study based MCQ**

Paheli took an iron rod. Fixed a few small wax pieces at equal distances on the rod as shown in the figure. She clamped the rod to a stand. Heated the other end of the rod and observed.



8) Which one of the paper pins will fall off the metal rod first?

P            Q            R            S

9) What does this experiment illustrate?

- a) wax melts easily.
- b) candle flame conducts heat.
- c) Iron is a bad conductor of heat.
- d) Heat gets transferred from hot part of a body to the cold part.

### **Assertion and Reason based MCQ**

10) Assertion (A): Woollen clothes keep the body warm in winter.

Reason (R): There is air trapped in between woollen fibres and air is a bad conductor of heat.

- i) Both A and R are true and R is the correct explanation of the assertion.
- ii) Both A and R are true but R is not the correct explanation of the assertion.
- iii) A is true but R is false.
- iv) A is false but R is true.

**11. Assertion (A):** All hot bodies radiate heat.

**Reason (R):** When heat falls on an object, a part of it is reflected, a part is absorbed and a part may be transmitted.

- i) Both A and R are true and R is the correct explanation of the assertion.
- ii) Both A and R are true but R is not the correct explanation of the assertion.
- iii) A is true but R is false.
- iv) A is false but R is true.

### **Match the columns**

Column 1	Column 2
Mercury	Kink
Rubber	Liquid metal
Land breeze	Reflect heat
Clinical thermometer	insulator

Light colours

Night time