



**INDIAN SCHOOL DARSAIT  
DEPARTMENT OF SCIENCE**



Subject : SCIENCE                      Topic : HEAT                      Date of Worksheet : 28.04.2019

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Name of the Student : \_\_\_\_\_ Class & Division : VII-- Roll Number : \_\_

- 1      **Mention the type of heat transfer in following:** 1
- a. Heating of water Mark
  - b. Heating of iron rod each
  - c. Sea breeze in coastal area
  - d. Heat reaching the earth from sun.
  - e. Heat transfer from one end of the spoon to the other when it is dipped in hot water.
- 2      **Answer the following:**
- a. Fastest mode of transfer of heat 1
  - b. Mode of transfer of heat where no medium is required mark
  - c. The metal used in the bulb of thermometer each
  - d. Temperature range in a laboratory thermometer.
- 3      **Match the following** ½
- | Column A                  | Column B                                |      |
|---------------------------|---|------|
| a. Clinical thermometer   | i. Maintain the temperature hot or cold | each |
| b. Laboratory thermometer | ii. Absorbs heat                        |      |
| c. Thermos flask          | iii. Smoke moves upward                 |      |
| d. Chimney                | iv. With kink                           |      |
| e. Black colour           | v. Without kink.                        |      |
- 4      Find the odd one out. Give reasons for your choice. ½
- a. Wood, paper, silver, plastic mark
  - b. Gold, copper, cork, mercury each
- 5      **Choose the correct answer from the following**
- a. Conduction takes place in 1
    - a. Solid only      b. Liquid only      c. Gases only      d. All of the above.
  - b. Ventilation in room is due to 1
    - a. Conduction      b. Convection      c. Radiation      d. Both radiation and conduction
  - c. In which method of transfer of heat do the molecules move from the hot region to the cold region? 1
    - a. Conduction      b. Convection      c. Radiation      d. All of the above.

6 **Fill in the blanks:**

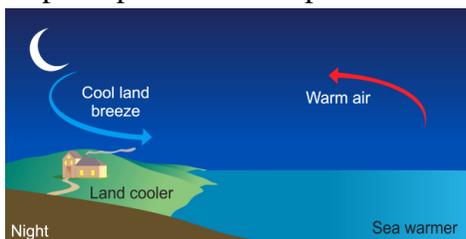
- a. The transfer of heat takes place from a body at -----temperature to a body at -----  
temperature 1
- b. Mercury level falls easily in a \_\_\_\_\_ thermometer. 1
- c. An iron ball at 50°C is dropped in a mug containing water at 40°C. The heat will flow from----  
----- to ----- 1

- 7 a. Convert from °C to °F (i) 40 °C (ii) 35 °C 1  
b. Convert from °F to °C (i) -40 °F (ii) 50 °F Mark each

8 **Give reasons for the following:**

- a. Stainless steel pans are provided with copper bottoms. 1
- b. A clinical thermometer has kink in it. Mark each
- c. Ventilators in houses are always placed at higher level.
- d. Hollow bricks are used to construct houses.

- 9 Name the diagram and state the principle behind the process.



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- 10 Equal volume of water is taken in two containers. One is painted black(A) and the other one is painted white(B) on its outer surface. (A) (B) 2



- (a) In which container, the water will be more warmer if kept in hot sun for an hour?
- (b) The above containers with hot water are kept in a shade for some time. What difference in temperature would you observe in both the containers ?

- 11 Identify the mode of transfer of heat shown in the diagram. 3

