



# INDIAN SCHOOL NIZWA - WORKSHEET

## GENERAL SCIENCE

### CH: 4 HEAT

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Class: VII Sec: \_\_\_\_

I Choose the correct answer

- Thermos flask keeps hot liquid hot and cold liquid cold by
  - Heating
  - cooling
  - Preventing loss of heat
  - using coolant
- \_\_\_\_\_ is the transfer of energy in the form of rays or waves
  - Conduction
  - convection
  - radiation
  - none of these
- Molecules do not move from the hotter body to the colder body in
  - Conduction
  - convection
  - radiation
  - none of these
- Sea breeze is caused due to
  - Conduction
  - convection
  - radiation
  - none of these
- Heat causes
  - Change of state only
  - change of temperature only
  - causes expansion
  - Change of state, temperature and expansion
- Which of these will expand the most during on heating
  - Solids
  - liquids
  - gases
- $-40^{\circ}\text{C}$  is equal to
  - $-10^{\circ}\text{F}$
  - $40^{\circ}\text{F}$
  - $-40^{\circ}\text{F}$
  - none of these
- Heat causes expansion because
  - Heat occupies space
  - of increase of movement of molecules
  - matter tries to escape from the heat
  - None of these
- Handles of cooking utensils should be made of a material that



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- a) Conducts heat well      b) does not conducts heat      c) radiates heat well      d) none of these

10. When you touch a cold object

- a) heat flows from your body to the object      b) heat flows from object to body      c) temperature from your body to the object      d) temperature flows from object to body

II. Answer the following.

11. State the difference between heat and temperature.

12. What are the conditions required for conduction?

13. We feel more comfortable in light coloured clothes in summer and with dark coloured clothes in winter. Give reason.

14. Room heaters have polished reflectors at the back of the heating element: Give reason

15. How thermos flask help in minimizing the transfer of heat by conduction , convection and radiation?

16. Convert  $10^{\circ}\text{C}$  into  $^{\circ}\text{F}$  and Kelvin scale.

17. Why is mercury used in thermometer?