



# PHYSICS

## NCERT - NCERT Physics(HINGLISH)

### HEAT

#### Exercise

1. State similarities and differences between the laboratory thermometer and the clinical thermometer.



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2. Give two examples each of conductors and insulators of heat.



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3. The hotness of an object is determined by its \_\_\_\_\_



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4. Temperature of boiling water cannot be measured by a \_\_\_\_ thermometer.



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5. Temperature is measured in degree \_\_\_\_\_



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6. No medium is required for transfer of heat by the process of \_\_\_\_





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7. Fill in the following blanks with suitable words :

A cold steel spoon is dipped in a cup of hot milk. It transfers heat to its other end by the process of \_\_\_\_\_



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8. Clothes of \_\_\_\_\_ colours absorb heat better than clothes of light colours.



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## 9. Match the following:

- |  |            |
|--|------------|
| (i) Land breeze blows during                     | (a) summer |
| (ii) Sea breeze blows during                     | (b) winter |
| (iii) Dark coloured clothes are preferred during | (c) day    |
| (iv) Light coloured clothes are preferred during | (d) night  |



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**10.** Discuss why wearing more layers of clothing during winters keeps us warmer than wearing just one thick piece of clothing.



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**11.** Look at Figure. Mark where the heat is being transferred by conduction, by convection and by radiation.



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**12.** In places of hot climate it is advised that the outer walls of houses be painted white.

## Explain



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**13.** One litre of water at  $30^{\circ}C$  is mixed with one litre of water at  $50^{\circ}C$ . The temperature of the mixture will be

A.  $80^{\circ}C$

B. more than  $50^{\circ}C$  but less than  $80^{\circ}C$

C.  $20^{\circ}C$

D. between  $30^{\circ}C$  and  $50^{\circ}C$

**Answer: D**



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**14.** An iron ball at  $40^{\circ} C$  is dropped in a mug containing water at  $40^{\circ} C$  . The heat will

- A. flow from iron ball to water.
- B. not flow from iron ball to water or from water to iron ball.
- C. flow from water to iron ball.



D. increase the temperature of both.

**Answer: B**



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**15.** A wooden spoon is dipped in a cup of ice cream. Its other end

A. becomes cold by the process of conduction.

B. becomes cold by the process of convection.

C. becomes cold by the process of radiation

D. does not become cold.

**Answer: D**



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**16.** Stainless steel pans are usually provided with copper bottoms. The reason for this could be that

A. copper bottom makes the pan more durable.

B. such pans appear colourful.

C. copper is a better conductor of heat than the stainless steel.

D. copper is easier to clean than the stainless steel

**Answer: C**



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