

Heat

1.Which of the following is a good conductor of heat?

- (a) Iron
- (b) Steel
- (c) Aluminium
- (d) All of these

2.A device used to measure the temperature is

- (a) transistor
- (b) thermometer
- (c) mercury
- (d) none of these

3.Which of the following thermometers has a kink?

- (a) Laboratory thermometer
- (b) Clinical thermometer
- (c) Both (a) and (b)
- (d) Digital thermometer

4.What is the range of the temperature reading of a clinical thermometer?

- (a) $35^{\circ}\text{C} - 42^{\circ}\text{C}$
- (b) $-10^{\circ}\text{C} - 110^{\circ}\text{C}$
- (c) $0^{\circ}\text{C} - 100^{\circ}\text{C}$
- (d) $32^{\circ}\text{C} - 42^{\circ}\text{C}$

5.Which of the following thermometer contains mercury?

- (a) Clinical thermometer
- (b) Laboratory thermometer
- (c) Both (a) and (b)
- (d) None of these

6.Name the device which is used to measure the hotness or coldness of an object.

- (a) Picometer
- (b) Barometer
- (c) Manometer
- (d) Thermometer

7.Which one is filled in the bulb of a thermometer?

- (a) Mercury

- (b) Lead
- (c) Copper
- (d) Silver

8.What is the normal temperature of a healthy person?

- (a) 37°C
- (b) 37°F
- (c) 37 K
- (d) None of these

9.Heat always flows

- (a) from a colder object to a hotter object
- (b) from a hotter object to a colder object
- (c) in both the directions
- (d) heat never flows from one object to other

10.Conduction is the method of transfer of heat in

- (a) liquids
- (b) solids
- (c) gases
- (d) vacuum

11.If two objects have the same mass, the object with the higher temperature always

- a. has greater thermal energy.
- b. has higher specific heat.
- c. feels warmer.
- d. two of the above

12.Which of the following statements about temperature is true?

- a. Temperature measures heat.
- b. Temperature measures kinetic energy.
- c. Temperature is the same thing as heat.
- d. Temperature is the same thing as thermal energy.

13.If a bucket full of water and a cup full of water have the same temperature, then the water in the

- a. bucket and cup have the same thermal energy.
- b. bucket has greater thermal energy.
- c. cup has lower average kinetic energy.
- d. cup has lower specific heat.

14.The thermal energy of an object depends on its

- a. mass.
- b. temperature.
- c. specific heat.
- d. two of the above

15.If you put a cool spoon into a cup of hot coffee, the temperature of the spoon rises because

- a. thermal energy is transferred from the coffee to the spoon.
- b. specific heat is transferred from the coffee to the spoon.
- c. particles of the spoon gain kinetic energy.
- d. two of the above

Answers key

1.(d) 2.(b) 3.(b) 4.(a) 5.(c) 6.(d) 7.(a) 8.(a) 9.(b) 10.(b)
11.(d) 12.(b) 13.(b) 14.(d) 15.(d)