

Class: 7

Subject: physics

Topic: Heat

No. of Questions: 20

Duration: 60 Min

Maximum Marks: 60

1. When matter gets warmer, the atoms and molecules in that matter _____
- Stand still
 - Move faster
 - Move slower
 - Can't say

Ans. b

Move faster

2. Higher the temperature of the body, _____ is the kinetic energy of the molecules of that body?
- Higher
 - Lower
 - Same
 - None of these

Ans. a

Higher

3. Stainless steel pans are usually provided with copper bottoms. The reason for this could be that
- Copper bottom makes the pan more durable
 - Such pans appear colorful.
 - Copper is a better conductor of heat than the stainless steel.
 - All of the above

Ans. c

Copper is a better conductor of heat than the stainless steel.

4. Unit of heat energy is
- Kilogram
 - Meter
 - Joule
 - Degree

Ans. c

Joule

5. One liter of water at 30°C is mixed with one liter of water at 50°C . The temperature of the mixture will be
- 80°C
 - More than 50°C
 - 20°C
 - Between 30°C and 50°C

Ans. d

Between 30°C and 50°C

6. Bodies transmitting heat via radiation
- Do not require any medium
 - Are liquids only
 - Make heat travel in one direction only.
 - Solids only.

Ans. a

Do not require any medium

7. In Fahrenheit scale, water freezes at
- 0°F
 - 32°F
 - 40°F
 - 212°F

Ans. b

32°F

8. An iron ball at 40°C is dropped in a mug containing water at 40°C . The heat will
- Flow from iron ball to water.
 - Not flow from iron ball to water or from water to iron ball.
 - Flow from water to iron ball.
 - Increase the temperature of both.

Ans. b

Not flow from iron ball to water or from water to iron ball.

9. Boiling point of water is
- 0°C
 - 100°C
 - 157°C
 - -39°C

Ans. b

100°C

10. A thermos flask prevents loss or gain of heat by
- Conduction only
 - Convection only
 - Radiation only
 - All the above

Ans. d

All the above

11. A Wooden spoon is dipped in a cup of ice cream. Its other end
- Becomes cold by the process of conduction.
 - Becomes cold by the process of convection.
 - Becomes cold by the process of radiation.
 - Does not become cold.

Ans. d

Does not become cold.

12. Sea breeze is caused due to

- a. Conduction
- b. Convection
- c. Radiation
- d. All of these

Ans. b

Convection

13. A polished silvery surface is

- a. Good absorber of heat
- b. Good reflector of heat
- c. Poor reflector of heat
- d. None of these

Ans. b

Good reflector of heat

14. Device used for measuring temperatures is called a

- a. Barometer
- b. Thermometer
- c. Speedometer
- d. All of the above

Ans. b

Thermometer

15. Why mercury is preferred in thermometers?

- a. It expands uniformly
- b. It does not stick to wall
- c. It is shiny and easy to see
- d. All of the above

Ans. d

16. At what temperature measurement on Celsius is equal to Fahrenheit?

- a. -40°
- b. 0°
- c. 40°
- d. 100°

Ans. a

17. If difference in temperature between A and B is 5°C , what is the difference in Kelvin scale?

- a. 1K
- b. 10K
- c. 100K
- d. 5K

Ans. d

18. The same quantity of heat supplied to same amount of different substances, does not necessarily produce the same increase in temperature. Why?

- a. Mass of body
- b. Change in temperature
- c. Nature of substance
- d. All of the above

Ans. d

19. On what factors heat absorbed through radiation by a body depends on?

- a. Distance between body and source of heat
- b. Its color
- c. Both
- d. All of the above

Ans. c

20. What is not the effect of heat?

- a. Heat increases the temperature
- b. Heat expands a substance
- c. Heat changes the state
- d. Heat doesn't bring chemical change

Ans. d

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