

21. The change of state directly from solid to gas is called

evaporation

sublimation

condensation

deposition

Answer (b).

22. Which of the following is used for measurement of high temperatures?

vapour thermometer

energy meter

resistance thermometer

pyrometer

Answer (d).

23. If boiling water is taken to the dark side of the moon it will

immediately vaporize

immediately freeze

continue to boil

stop boiling but remain hot

Answer (b).

24. Which two liquids are used in the construction of minimum and maximum thermometers?

mercury and water

water and alcohol

mercury and alcohol

mercury and bromine

Answer (c).

25. Which one among the following statements about thermal conductivity is correct?

Steel > Wood > Water

Steel > Water > Wood

Water > Steel > Wood

Water > Wood > Steel

Answer (b).

26. A hot object loses heat to its surroundings in the form of heat radiation. The rate of loss of heat depends on the

temperature of the object

temperature of the surroundings

temperature difference between the object and its surroundings

average temperature of the object and its surroundings

Answer (c).

27. Body A of mass 2 kg and another body B of mass 4 kg and of same material are kept in the same sunshine for some interval of time. If the rise in temperature is equal for both the bodies, then which one among the following in this regard is correct?

Heat absorbed by B is double because its mass is double

Heat absorbed by A is double because its mass is half

Heat absorbed by Both A and B is equal because the quantity of heat absorbed does not depend upon mass

Heat absorbed by B is four times than the heat absorbed by A because the quantity of heat absorbed is proportional to square of the mass

Answer (a).

28. A glass of water does not turn into ice as it reaches 0°C . It is because water does not solidify at 0°C

a certain amount of heat must be supplied to the glass of water so as to solidify

a certain amount of heat must be taken out from the glass of water so as to solidify water solidifies at 0°K only

Answer (c).

29. Thermometer A and B have ice points marked at 15° and 25° and steam points at 75° and 125° respectively. When thermometer A measures the temperature of a bath as 60° the reading of B for the same bath is

60°

75°

90°

100°

Answer (d). $60 - 15/60 = B - 25/100 \Rightarrow B = 100^{\circ}$

30. Which one among the following waves are called waves of heat energy?

Radio waves

Infrared waves

Ultraviolet waves

Microwaves

Answer (b).

31. In a pressure cooker cooking is faster because the increase in vapour pressure
increases the specific heat
decreases the specific heat
decreases the boiling point
increases the boiling point

Answer (d).

32. If a heater coil is cut into two equal parts and only one part is used in the heater, the heat generated will be:

doubled

four times

one-fourth

halved

Answer (a).

33. The best and the poorest conductors of heat are respectively

silver (Ag) and lead (Pb)

copper (Cu) and aluminium (Al)

silver (Ag) and gold (Au)

copper (cu) and gold (Au)

Answer (a).

34. Which one of the following is the mode of heat transfer in which warm material is transported so as to displace a cooler material?

Conduction only

Convection only

Radiation

Both conduction and convection

Answer (b).

35. Which one among the following denotes the smallest temperature?

1° on the Celsius scale

1° on the Kelvin scale

1° on the Fahrenheit scale

1° on the Reaumur scale

Answer (b).

36. Which among the following thermometers is preferred for measuring temperature around 1250° C?

Mercury thermometer

Constant volume gas thermometer

Optical pyrometer

Platinum resistance thermometer

Answer (c).