

Physics

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(Chapter 11) (Thermal Properties of Matter) (Exercises)

(Class 11)

Heat required for boiling the water: $Q = mL$

... (ii)

Equating equations (i) and (ii), we get:

$$\therefore mL = \frac{KA(T_1 - T_2)t}{l} \Rightarrow T_1 - T_2 = \frac{mLl}{KA t} = \frac{6 \times 2256 \times 10^3 \times 0.01}{109 \times 0.15 \times 60} = 137.98^\circ\text{C}$$

Therefore, the temperature of the part of the flame in contact with the boiler is 237.98°C .

Question 11.19:

Explain why:

- (a) a body with large reflectivity is a poor emitter
- (b) a brass tumbler feels much colder than a wooden tray on a chilly day
- (c) an optical pyrometer (for measuring high temperatures) calibrated for an ideal black body radiation gives too low a value for the temperature of a red hot iron piece in the open, but gives a correct value for the temperature when the same piece is in the furnace
- (d) the earth without its atmosphere would be inhospitably cold
- (e) heating systems based on circulation of steam are more efficient in warming a building than those based on circulation of hot water

Answer 11.19:

- (a) A body with a large reflectivity is a poor absorber of light radiations. A poor absorber will in turn be a poor emitter of radiations. Hence, a body with a large reflectivity is a poor emitter.
- (b) Brass is a good conductor of heat. When one touches a brass tumbler, heat is conducted from the body to the brass tumbler easily. Hence, the temperature of the body reduces to a lower value and one feels cooler.

Wood is a poor conductor of heat. When one touches a wooden tray, very little heat is conducted from the body to the wooden tray. Hence, there is only a negligible drop in the temperature of the body and one does not feel cool.

Thus, a brass tumbler feels colder than a wooden tray on a chilly day.

- (c) An optical pyrometer calibrated for an ideal black body radiation gives too low a value for temperature of a red hot iron piece kept in the open.

Black body radiation equation is given by:

$$E = \sigma(T^4 - T_o^4)$$

Where,

E = Energy radiation

T = Temperature of optical pyrometer

T_o = Temperature of open space

σ = Constant

Hence, an increase in the temperature of open space reduces the radiation energy.

When the same piece of iron is placed in a furnace, the radiation energy, $E = \sigma T^4$

- (d) Without its atmosphere, earth would be inhospitably cold. In the absence of atmospheric gases, no extra heat will be trapped. All the heat would be radiated back from earth's surface.
- (e) A heating system based on the circulation of steam is more efficient in warming a building than that based on the circulation of hot water. This is because steam contains surplus heat in the form of latent heat (540 cal/g).

Physics Chapter 11 Answers

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