

## MATTER IN OUR SURROUNDINGS

Q\* Boiling point :-

The temperature at which liquid boils into gas is called boiling point.

\* Latent heat of vaporization

The amount of heat require to change 1 kg liquid to its gaseous state.

\* Sublimation

The process of solid directly into gas without passing through liquid state.

### Questions

(i) 470 K

$$\Rightarrow ^\circ\text{C} = \text{K} - 273$$

$$^\circ\text{C} = 470 - 273$$

$$^\circ\text{C} = 197^\circ$$

(ii) 173 K

$$\Rightarrow ^\circ\text{C} = \text{K} - 273$$

$$^\circ\text{C} = 173 - 273$$

$$^\circ\text{C} = -100^\circ$$

(iii) 30  $^\circ\text{C}$

$$\Rightarrow \text{K} = ^\circ\text{C} + 273$$

$$\Rightarrow \text{K} = 30 + 273$$

$$\Rightarrow \text{K} = 303 \text{ K}$$

(iv) -71  $^\circ\text{C}$

$$\Rightarrow \text{K} = ^\circ\text{C} + 273$$

$$\Rightarrow \text{K} = -71 + 273$$

$$\Rightarrow \text{K} = 202 \text{ K}$$