

Date 14/07/2021

→ HOMEWORK

Q. Define one kilogram, the S.I unit of mass. How is it related to (i) quintal (ii) metric tonne and (iii) gram.

Ans - The S.I unit of mass is kilogram (kg). At present, the mass of 1 litre of water at 4°C is taken as 1 kilogram.

(i) quintal = 1 quintal = 100 kg

(ii) metric tonne = 1 metric tonne = 10 quintal
= 1000 kg

(iii) gram = 1 g = $\frac{1}{1000}$ kg or 1 kg = 1000 g

Q. Name and define the S.I unit of time. How is it related to (i) minute (ii) hr (iii) day and (iv) year?

Ans - The S.I unit of time is second (s).

One second is the two consecutive ticks of a pendulum clock.

(i) minute = 1 min = 60 s

(ii) 1 hr = 60 min = 60 × 60 s = 3600 s

(iii) day = 24 hr = 24 × 60 min = 1440 min
= 24 × 60 × 60 ^s = 86400 s

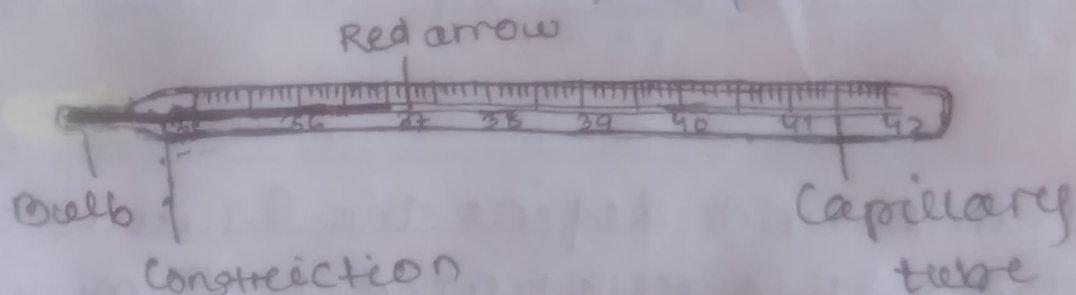
(iv) year = 365 days
= 365 × 86400 s

Q. Name the S.I unit of temperature & write their one common unit and their symbol.

Ans. The S.I unit of temperature is Kelvin (K)
One common unit is - Celsius ($^{\circ}\text{C}$)

Q. Name the instrument used for measuring of the temperature of a person. Draw its labeled diagram.

ans - ^{Clinical} Thermometer is used for measuring of the temperature of a person.



Clinical Thermometer

Q. What is a clinical thermometer? State its special feature. Draw a labelled diagram of a clinical thermometer showing the range of temperature marked on it.

ans - The thermometer used by doctors and other people to measure the temperature of the body is a clinical thermometer. A clinical thermometer has markings in $^{\circ}\text{C}$ and $^{\circ}\text{F}$.

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It has marking from 35°C to 42°C . The normal body temperature is 37°C or 98.6°F it is also marked on the thermometer.

