

Q5 Define one kilogram, the S.I unit of mass.

How it is related to:

i) quintal :- It is the bigger unit of mass.
 $1 \text{ quintal} = 100 \text{ kg}$

ii) metric tonne :- ~~and~~ The still bigger unit of mass is metric tonne.

$$1 \text{ metric tonne} = 10 \text{ quintal} = 1000 \text{ kg}$$

iii) gram :- It is used to measure a ~~small~~ light weighted object and it is ~~very~~ shorter unit of mass.

As One kilogram is the basic unit of mass in the metric system. It is the S-I unit of mass.

Q6 Name and define the S.I unit of time.

How it is related to i) minute, ii) hour, ~~iii) day~~
iii) day, iv) year?

As The S.I unit of time is second. One second is interval between the two consecutive ticks that we hear from a pendulum clock.

i) minute :- It is the bigger unit of time.
 $1 \text{ minute} = 60 \text{ seconds}$

ii) hour :- It is still bigger unit of time than minutes.

$$1 \text{ hour} = 60 \text{ minutes}$$

$$1 \text{ hour} = 60 \text{ minutes} = 60 \times 60 \text{ seconds} = 3600 \text{ seconds}$$

iii) day :- Other unit of time is day.

$$1 \text{ day} = 24 \text{ hours}$$

$$= 24 \times 60 \text{ min} = 1440 \text{ minutes}$$

$$= 24 \times 60 \times 60 \text{ seconds} = 86400 \text{ seconds}$$

It is the time taken by the earth to complete one rotation.

iv) year :- It is the biggest unit of time.

$$1 \text{ year} = 12 \text{ months} = 365 \text{ days}$$

Q) Name the S.I unit and one common unit of temperature. Write their symbols also.

A) The S.I unit of ~~time~~ temperature is Kelvin (K).
The other common units of temperature is ~~is~~ ~~and~~ degree Celsius ($^{\circ}\text{C}$) and degree Fahrenheit ($^{\circ}\text{F}$).

Q) Name the instrument used for measuring of the temperature of a person. Draw its labelled neat diagram.

Q3 The instrument used for measuring of the temperature of a person is clinical thermometer.

Q3 What is a clinical thermometer? State its special feature. Draw a labelled neat diagram of a clinical thermometer showing the range of temperature marked on it.

Ans Clinical thermometer is an apparatus which is used to measure the temperature of a human body. It ~~starts at~~ shows the range of temperature from 35°C to 42°C . The temperature of a healthy person is 37°C . This is used ~~by~~ mainly by doctors.

Diagram of a clinical thermometer

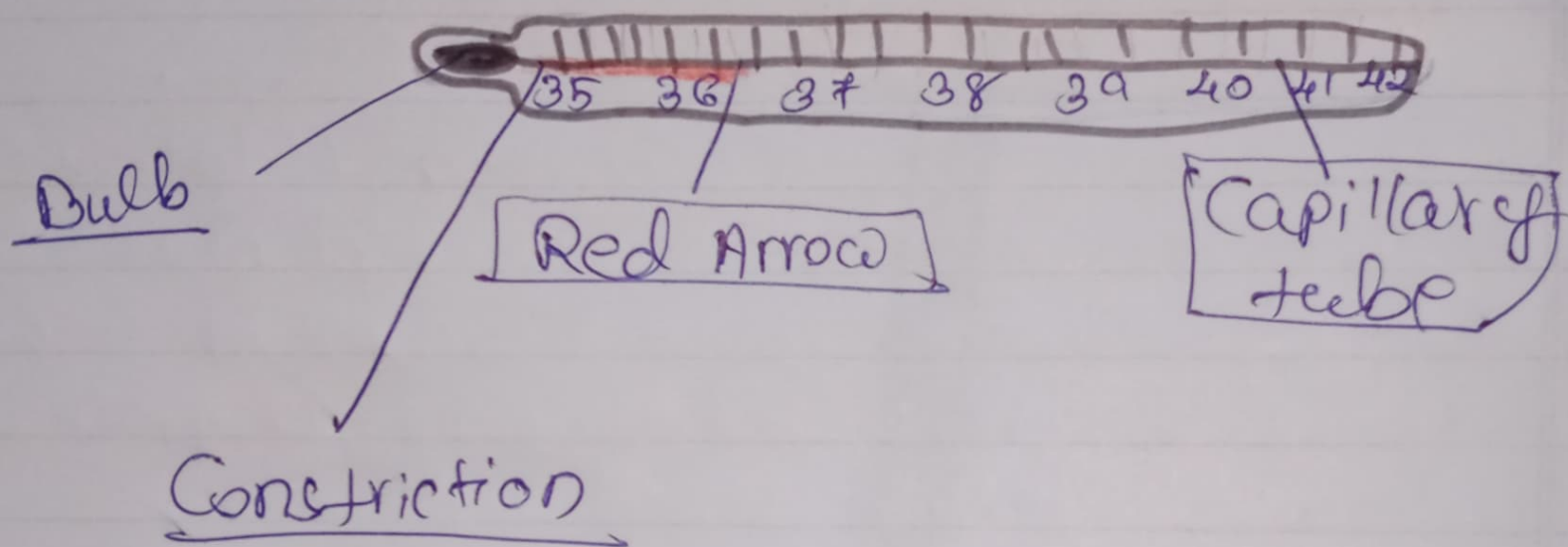


Diagram of a clinical thermometer
on the basis of showing range of temperatures
marked on it.

