

HW
14.7.21

Extra Q

Date _____
Page _____

Q- Define one Kilogram, the S.I unit of mass. How is it related to i) quintal ii) metric ton iii) gram?

Kilogram is written as Kg in short form.

$$1 \text{ kg} = 1000 \text{ g}$$

- i) Quintal = 1 quintal = 100 kg
- ii) Metric ton = 1000 kg
- iii) Gram = 1 g = 1/1000 kg

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

The S.I unit of time is second (s). 1 s is defined as

- i) ~~Minute~~ 1/86400 x one mean solar day
- ii) minute = 60 s
- iii) hour = 60 s x 60 s = 3600 s
- iii) day = 24 x 60 = 1440 minutes, 24 x 60 x 60 = 86400 s
- iv) year = 365 x 24 x 60 x 60 = 3.15 x 10⁷ s.

Q- Name the S.I unit of temperature. Write their symbols also.

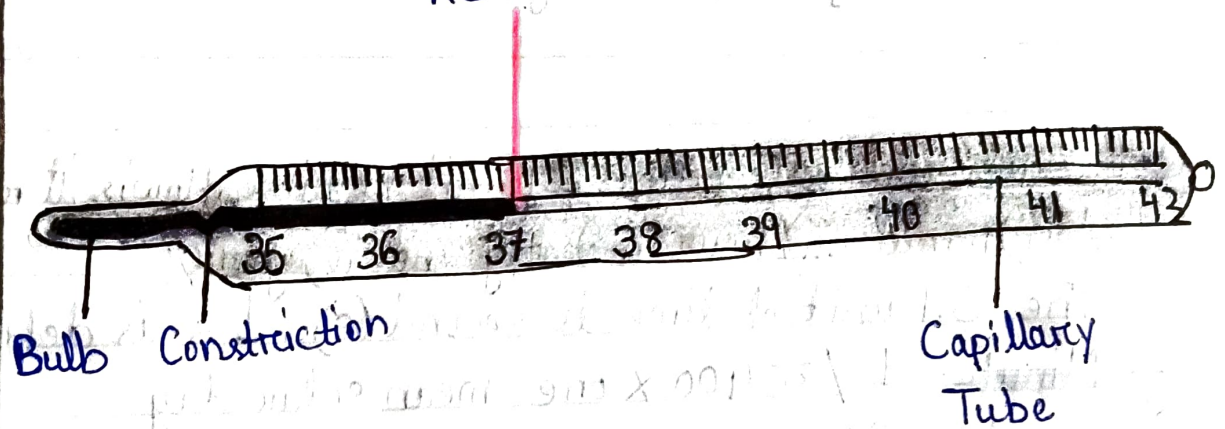
The S.I unit of temperature is Kelvin (K).

(K) is the symbol of temperature or Kelvin.


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

Clinical thermometer is used for measuring the temperature of a person.

Red arrow

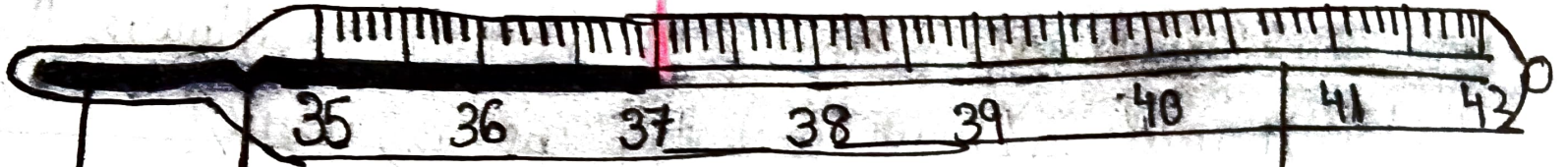


Q- What is a clinical thermometer? State its special feature. Draw a labeled neat diagram of a clinical thermometer showing the range of temperature marked on it.

The clinical thermometer is a thermometer used for measuring the temperature of a person. It has markings from 35° to 42° . There is a kink () like structure which is called as Constriction which prevents the mercury to fall back. The temperature of an average healthy person is 37° which is marked by a red arrow. This thermometer is normally used by doctors.

— X —

Red arrow



Bulb

Constriction

Capillary
Tube