

It measures the temperature of a patient's body with a clinical thermometer.

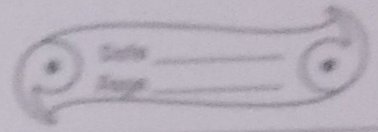


Diagram.

Q) Clinical Thermometer.

What is clinical thermometer? State its special features, Draw a labeled neat diagram of a clinical thermometer showing the range of temperature marked on it

(A) A clinical thermometer has the marking from 35°C to 42°C . It has a slight bend or kink in the stem just above the bulb. This kink prevents the mercury from falling back all by itself.

Special features of Clinical thermometer

$$= 9.15 \times 10^7 \text{ s}$$

(10³) (Q) What does the temperature measure?

(A) Temperature is the measure of degree of hotness or coldness of an object.

(11) (Q) Name the (i) S.I. unit and (ii) one common unit of temperature write their symbols also.

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

(ii) One common unit of temperature is degree Celsius (°C).

(12) (Q) Name the instrument used for measuring temperature of a person. Draw a labeled

make one kilogram i.e. $1 \text{ kg} = 1000$
or $1 \text{ g} = 1/1000 \text{ kg}$

(Q2) Name and define the SI unit of time. How is it related to (i) minute (ii) hour (iii) day and (iv) year?

(A) The S.I. unit of time is second. In short form, it is written by the letters

(i) $1 \text{ minute} = 60 \text{ seconds}$

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

(iii) $1 \text{ day} = 24 \text{ hours} = 24 \times 60 \text{ min} = 1440$
 $\text{min} = 1440 \times 60 \text{ s} = 86400 \text{ s}$

(iv) $1 \text{ year} = 365 \text{ day} = 365 \times 86400 \text{ s}$

(2) 100

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

(A) One kilogram was defined as the mass of
a cylinder of platinum - iridium alloy kept
at the international bureau of weights and
measures at Sevres. A near pair

one hundred kilogram make one quintal
i.e. 1 quintal = 100 kg

Ten quintal make one metric tonne i.e.

1 metric tonne = 10 quintal = 1000 kg

one gram is the one thousandth part

of a kilogram or one thousandth gram