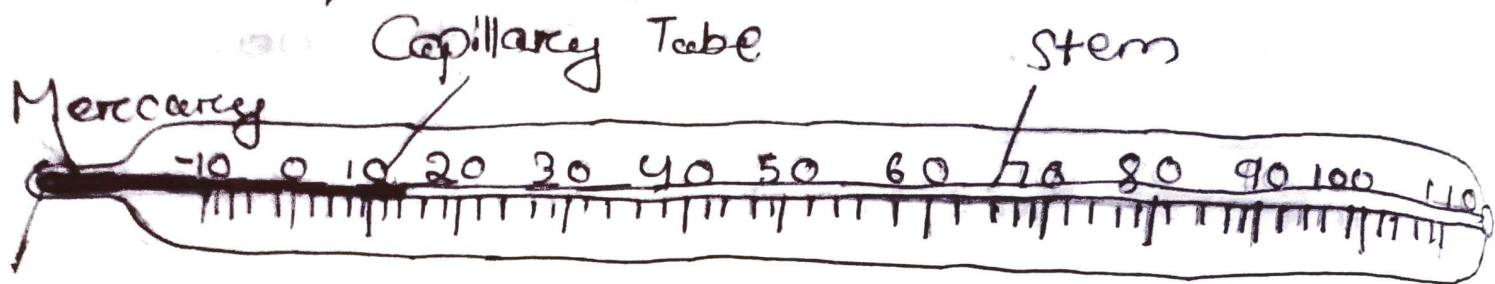


Ques

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

A: Thermometer is used for measuring the temperature of a person.



Bulb

20) Write the temperature of i) melting ice (ii) boiling water.

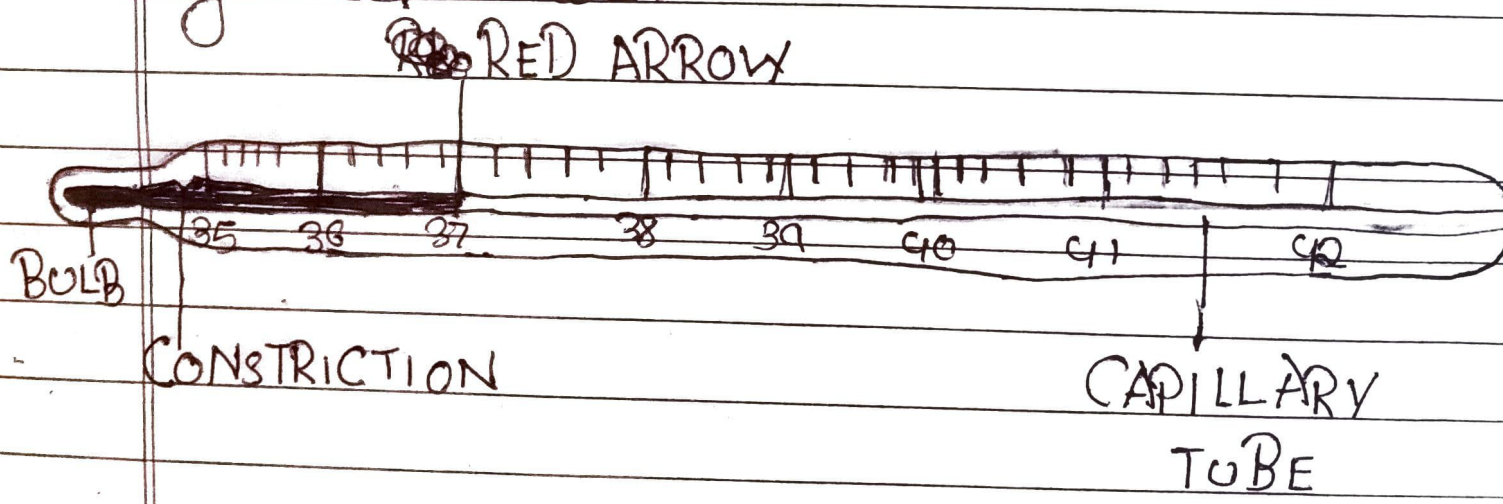
A= Melting ice:  $0^{\circ}\text{C}$

Boiling water:  $100^{\circ}\text{C}$

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

A- Doctors use a special thermometer for measuring the temperature of a patient's body. It has markings from  $35^{\circ}\text{C}$  to  $42^{\circ}\text{C}$ . It has a slight bend or kind in the stem just above the bulb. This kind is called constriction.

The temperature of a healthy person is  $37^{\circ}\text{C}$ . This temperature is marked by a red arrow.





1) Define temperature Explain the units of temperature.

A- Temperature is the measurement of degree of hotness or coldness of a body or an object.

Units of temperature:

The S.I. units of temperature is Kelvin or K

Apport from K there are other two commonly

used units, they are:

1) Degree centigrade: It was given by the scientist ~~an Andrews~~ ~~as Celsius~~ Celsius. The symbol is  $^{\circ}\text{C}$ .

2) Degree Fahrenheit: It is named after the scientist G.D. Fahrenheit. The symbol is  $^{\circ}\text{F}$ .

2) What do you mean by ice point and steam point?

A- Ice point: The temperature where water turns ~~into~~ from its liquid form to its solid form (water to ice).

Steam point: The temperature where a ~~liquid~~ ~~solid~~ turns into gas or water vapour. From its ~~solid state~~ liquid state to its gaseous state (water to gas).

3) ~~One~~ One degree on celsius scale is equal to 1.8 degree on fahrenheit scale.

4) Differentiate between laboratory thermometer and clinical thermometer?

A - Clinical thermometer:

Doctors use a special thermometer for measuring the temperature of a patient's body. It has markings from  $35^{\circ}\text{C}$  to  $42^{\circ}\text{C}$ . It has a slight bend or kink in the stem just above the bulb. This kind is called constriction. ~~The constriction~~ ~~prevents~~ The temperature of a healthy person is  $37^{\circ}\text{C}$ . This temperature is marked by a red arrow.



Laboratory thermometer :

To measure the temperature of an object with the help of a laboratory thermometer, the bulb of the thermometer is kept in contact with the object. The mercury rises in the capillary tube. When the mercury does not rise further and gets stabilised, this means you've got the perfect temperature.