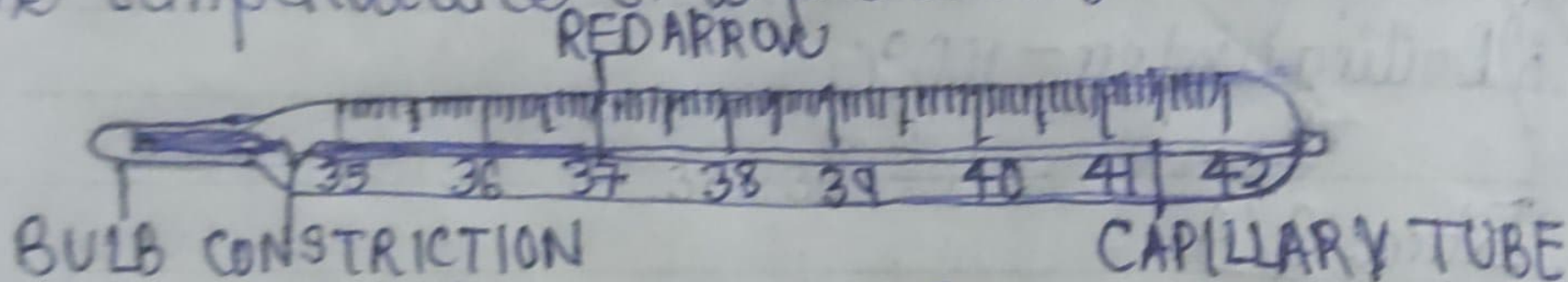
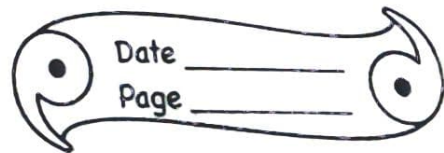


19) Name the instrument used for measuring the temperature of a person. Draw its neat labelled diagram.

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



HW
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Exercise Q no. 19 to 21

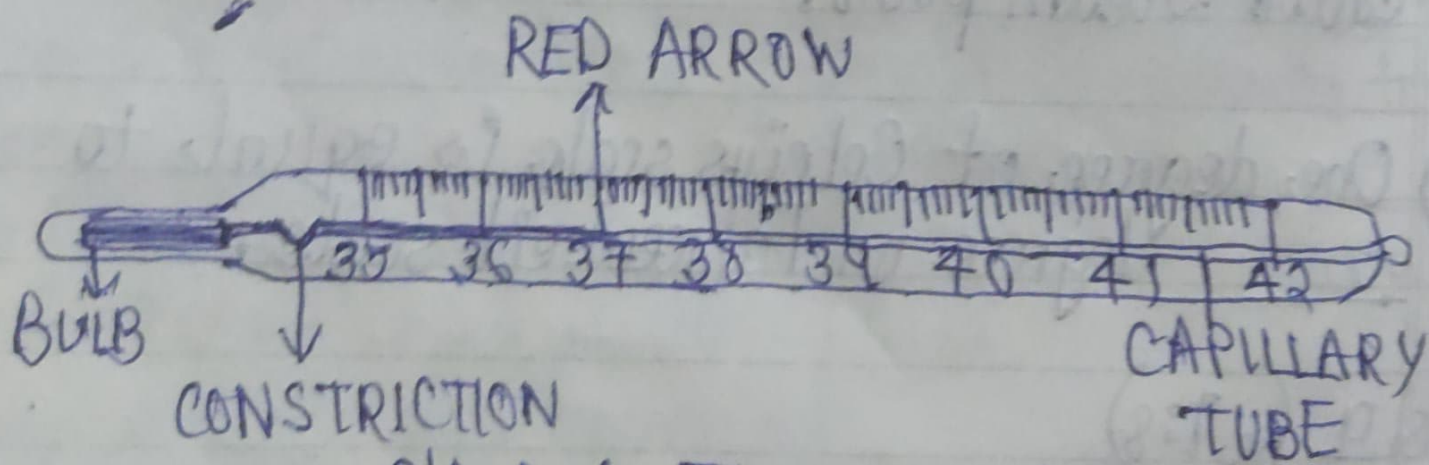
20 ~~19~~) Write the temperature of (i) melting ice (ii) boiling water.

ans) i) Melting ice - 0°C

ii) Boiling water - 100°C

2) 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.

Doctors use a special thermometer called the clinical thermometer for measuring the temperature of the patient's body. This thermometer has the markings from 35°C to 42°C . It has a slight bend or kink in the stem just above the bulb. This kink is called the constriction. This construction prevents the mercury from falling back all by itself. The temperature of a healthy person is 37°C . This temperature is marked by a red arrow.



Clinical Thermometer

Extra Q/A

Q) Define temperature. Explain the units of temperature.

ans) The temperature is the measure of degree of hotness or coldness of an object. It's units are:- Kelvin, Degree Celsius and Degree Fahrenheit.

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

ans) Ice point - The freezing point of water is called ice point.

Steam point - The boiling point of water is called Steam point.

Q) One degree of Celsius scale is equal to _____ degree on Fahrenheit scale.

ans) $\frac{9}{5}$ (or 1:8)

Hw
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Differentiate between a Clinical thermometer and Laboratory thermometer

ans) Clinical thermometer

- Temperature range is 35 to 42°C.
- Used to measure human body temperature.
- It has kink, which prevents immediate backflow of mercury (is also known as constriction).

Laboratory thermometer

- Temperature range is -10 to 110°C.
- Used to measure temperature of an object.
- It does not have a kink.