

Heat

Assignment 1:-

- 1) Write any five differences between heat and temperature.

Heat	Temperature
- It is a form of energy which produces sensation of warmth.	- It is the degree of hotness or coldness of a body.
- It is the cause of change in temperature.	- It is the effect of Heat.
- It flows from a hot body to cold body.	- It gives the direction of flow of heat.
- Its SI unit is Joule (J).	- Its SI unit is Kelvin (K).
It is a derived quantity	
- It is measured by calorimeter.	- It is measured by thermometer.

2) Name the instruments to measure heat & temperature.

→ Heat → Calorimeter,
Temperature → Thermometer,

3) Write down the SI unit of heat & temperature.

→ SI unit of:

Heat = Joule(J)

Temperature = Kelvin(K)

4) What do you mean by one calorie heat?

→ One Calorie heat is the amount of heat required to raise the temperature of one gram of pure water by 1°C .

5) On what principle the construction of thermometer based.

→ The construction of thermometer is

based on the principle that "when a body is heated, it expands and it contracts on cooling."

6) Why a constriction is made in clinical thermometer?

→ Constriction is made in a clinical thermometer in order to prevent backflow of mercury after taking the measurement.

7) The shape of the clinical thermometer is made prismatic. Why?

→ ...because it helps to magnify the view of mercury level in the capillary tube.

8) Draw a well labelled colored diagram of clinical thermometer.



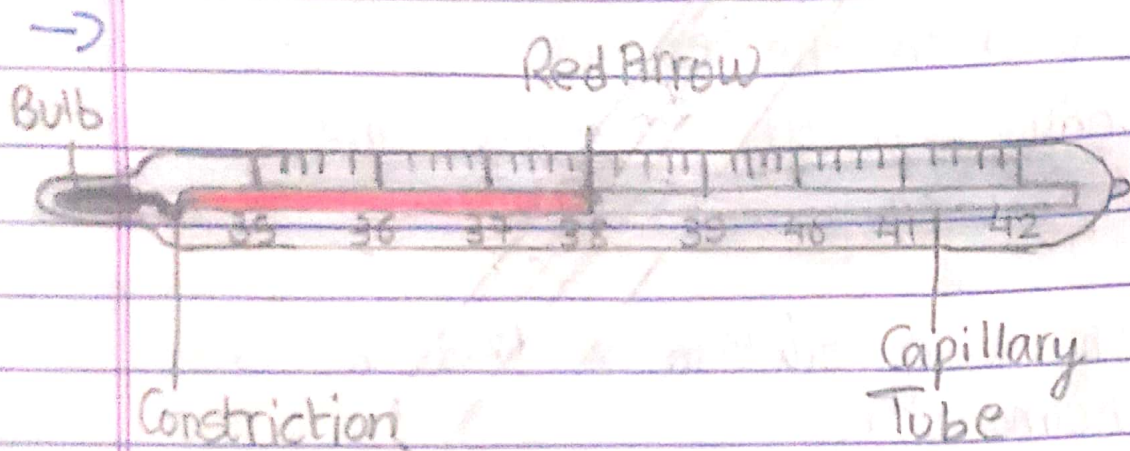


Fig: Clinical Thermometer