

SCIENCE
CLASS – 7

PREMID TERM REVISION - CHAPTER – HEAT

Choose the correct answer

1. Which of the following conditions enables heat to flow from one body to another identical body?
 - a. The difference in the temperature of the two bodies.
 - b. The difference in the pressure exerted on the two bodies.
 - c. The difference in the densities of the two bodies.
 - d. The difference in the sizes of the two bodies.

2. What is temperature?
 - a. The rate of expansion of an object.
 - b. The loss of heat energy.
 - c. The volume of a gas occupied.
 - d. The degree of hotness or coldness of a body.

3. Name the thermometer which ranges between -10°C to 110°C .
 - a. Clinical thermometer.
 - b. Digital thermometer.
 - c. Laboratory thermometer.
 - d. All of these.

4. The normal human body temperature in the clinical thermometer on the Celsius scale represent which one of the following temperatures?
 - a. 24°C
 - b. 45°C
 - c. 57°C
 - d. 37°C

5. Why a digital thermometer is widely used for the measurement of the temperature?
 - a. Presence of mercury
 - b. High accuracy
 - c. Low accuracy
 - d. Both (a) and (b)

6. Fig 4.3 (a–d) shows a student reading a doctor's thermometer. Which of the figure indicates the correct method of reading temperature?

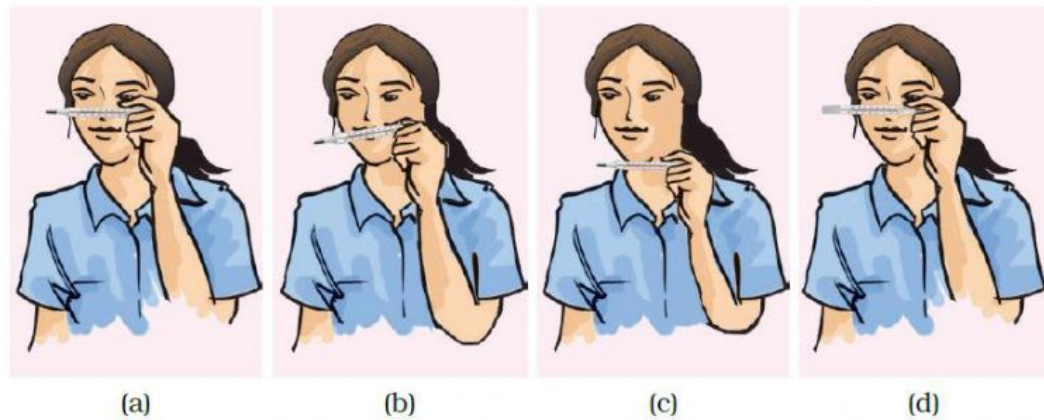


Fig. 4.3

A B C D

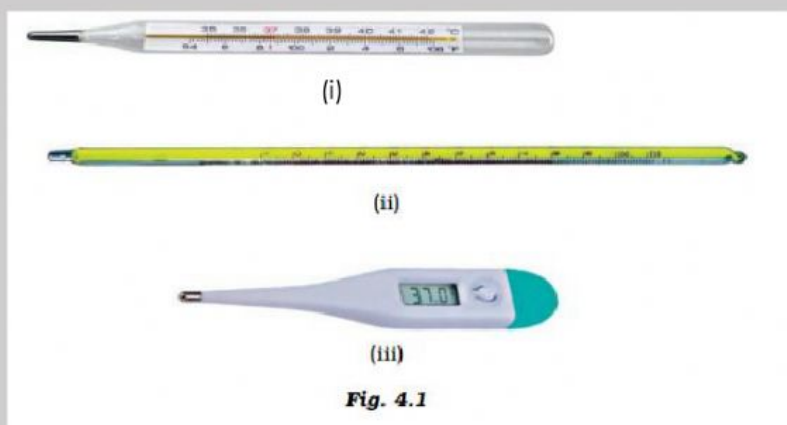
7. The _____ in a clinical thermometer prevents backflow of the mercury into the bulb.

- a. Kink
- b. Bulb
- c. Scale
- d. Light.

Passage based MCQ

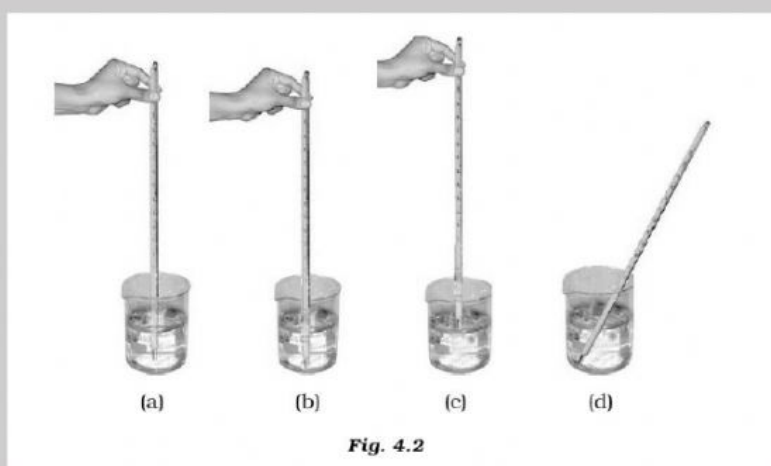
Take some hot water in a beaker or a mug. Dip the laboratory thermometer in water. Wait till the mercury thread becomes steady and note the temperature. Now take out the thermometer from water. Observe carefully. As soon as you take the thermometer out of water, the level of mercury begins to fall. This means that the temperature must be read while the thermometer is in water.

8) Three thermometers are shown in Figure 4.1. Which thermometers are used to measure the temperature of body and that of boiling water?



- (a) Thermometer (i) or (iii) for measuring body temperature and (ii) for measuring the temperature of boiling water.
 (b) Thermometer (i) for measuring the temperature of both.
 (c) Thermometer (ii) for measuring the temperature of both.
 (d) Thermometer (iii) for measuring the temperature of both.

9) Four arrangements to measure the temperature of the hot water in a beaker with laboratory thermometer are shown in Figure 4.2 (a, b, c and d). Which one of them shows the correct arrangement for accurate measurement of temperature?



A

B

C

D

Assertion and Reasoning

10)Assertion (A): Temperature of boiling water can be measured by a clinical thermometer.

Reason (R): The range of a clinical thermometer is from 35°C to 42°C .

- i) Both A and R are true and R is the correct explanation of the assertion.
- ii) Both A and R are true but R is not the correct explanation of the assertion.
- iii) A is true but R is false.
- iv) A is false but R is true.