



ASSIGNMENT NO. 2

SUBJECT: SCIENCE

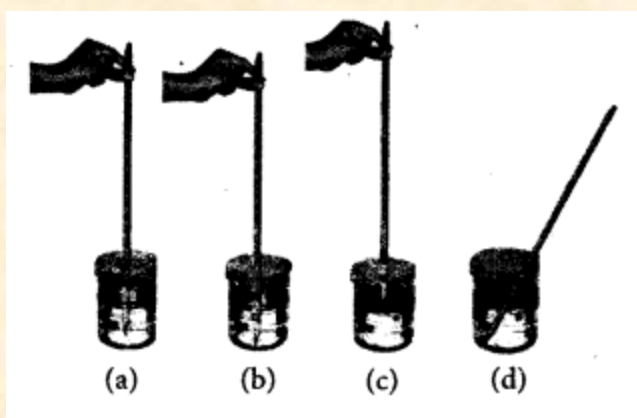
CLASS-VII

MAY'2025

Chapter -3: Heat

1. Choose the correct option:

- i. A beggar wrapped himself with a few layers of newspaper on a cold winter night. This helped him to keep himself warm because
 - a) friction between the layers of newspaper produces heat
 - b) air trapped between the layers of newspaper is a bad conductor of heat
 - c) newspaper is a conductor of heat
 - d) newspaper is at a higher temperature than the temperature of the surroundings
- ii. Four arrangements to measure temperature of ice in beaker with laboratory thermometer are shown in figure (a, b, c, d). Which one of them shows the correct arrangement for accurate measurement of temperature?



- 2. In each of the following questions, two statements are given- one labeled Assertion (A) and the other labeled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:**

- a) Both A and R are true, and R is correct explanation of the assertion.
- b) Both A and R are true, but R is not the correct explanation of the assertion.
- c) A is true, but R is false.

d) Both assertion and reason are false.

(iii) **Assertion:** Radiation is a method of transfer of heat.

Reason: The process of heat transfer that does not require any medium is called convection.

(iv) **Assertion:** A clinical thermometer has a scale in the range of 37°C to 45°C

Reason: The normal temperature of human body is 37°C .

3. Answer the following question.

1. State the limitation of clinical thermometer.
2. Differentiate between two modes of transfer of heat, i.e. convection and conduction.
3. While reading a clinical thermometer, what precautions should we take?
4. The handle of a pressure cooker is covered with the thick plastic. Explain why.
5. Explain the reason for the following statement, "When heat is applied at the bottom of the water vessel, then it gets heated more quickly than when it is heated at the top."