

1. One of the steps of the water cycle is evaporation of water. The same phenomena is observed during separation of salt from sea water, drying of clothes, transpiration from leaves.

Fill in the blanks using words from the list given here

cooling, low, faster, slower, high, heating

- a. Transpiration will be \_\_\_ on a windy day because the water vapour will be dispersed by the wind.
- b. Clothes dry faster during the summer season as the temperature is \_\_\_.
- c. The rate of evaporation is \_\_\_ during humid days as the air already contains a substantial amount of water vapour.
- d. Both transpiration and sweating have a \_\_\_ effect on the organism.

2. The given picture depicts a game named hammer throw where a heavy ball is made to move as shown and then thrown as far as possible.



- i. The type of motion of the heavy ball before it is thrown is
  - a. Rotation
  - b. Revolution
  - c. Circular
  - d. Curvilinear
  - e. Both a and c
- ii. The type of motion of the heavy ball after it is thrown is
  - a. Translatory
  - b. Rectilinear
  - c. Curvilinear
  - d. Both a and c
- iii. Before the ball is thrown, the distance between the ball and hand is \_\_\_ and can be considered as the \_\_\_ of the path.
  - a. Constant, diameter
  - b. Continuously changing, radius
  - c. Constant, radius
  - d. Continuously changing, diameter
- iv. Which of the following units is best suited used to measure the distance covered by the ball after it is thrown?
  - a. kilogram
  - b. feet and inches
  - c. second
  - d. Kelvin
- v. Assertion : The unit of speed is an example of a fundamental unit.

Reason : It can be found by using units of distance and time.

- a. Both assertion and reason are correct and reason is the correct explanation of assertion.
- b. Both assertion and reason are correct and reason is not the correct explanation of assertion.
- c. Assertion is true and reason is false
- d. Assertion is false and reason is true

3. What will you observe if the mouth of an inflated balloon is untied?

- a. The air pressure inside the balloon will be released and the balloon will go down
- b. The air pressure inside the balloon will increase and the balloon will go up
- c. The air pressure inside the balloon will be released and the balloon will go up
- d. The air pressure inside the balloon will increase and the balloon will go down