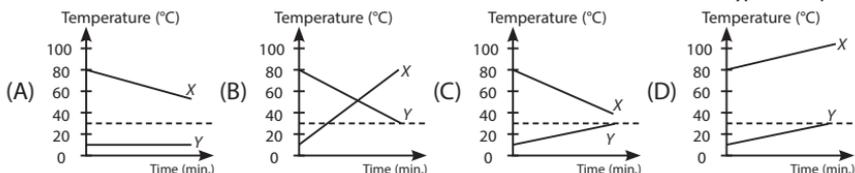
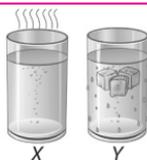


6. Two identical cups, X and Y are filled with water at different temperatures as shown in the given figures. They are placed in a room which is at a temperature of 30°C. Which one of the following graphs correctly shows the variation in the temperature of the water in the cups over a period of time?



7. Which of the following statements is correct regarding inhalation?

- (A) Ribs move downward and inward
 (B) Diaphragm becomes dome-shaped
 (C) Air pressure in the lungs decreases
 (D) Volume of thoracic cavity decreases

8. Select the incorrect matches.

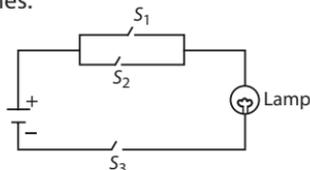
- | | | | |
|-------------------|--------------|------------------------|-----------|
| (i) Gastric juice | - Pepsin | (ii) Gall bladder | - Lactase |
| (iii) Bile | - Pancreas | (iv) Hydrochloric acid | - Stomach |
| (v) Maltase | - Oesophagus | (vi) Saliva | - Amylase |
- (A) (ii) and (iii) only
 (B) (iii) and (iv) only
 (C) (ii), (iii) and (v) only
 (D) (i), (ii) and (vi) only

ACHIEVERS SECTION

9. In the given circuit diagram, S_1 , S_2 and S_3 are switches.

Lamp will glow when

- | | | |
|------------|--------|--------|
| S_1 | S_2 | S_3 |
| (A) Open | Open | Closed |
| (B) Closed | Closed | Open |
| (C) Open | Closed | Open |
| (D) Closed | Open | Closed |



10. Match column I with column II and select the correct option from the given codes.

Column I (Type of respiration)

- P. Tracheal
 Q. Cutaneous
 R. Branchial
 S. Pulmonary
 (A) P-(iii), Q-(i), R-(ii), S-(iv)
 (C) P-(iv), Q-(ii), R-(i), S-(iii)

Column II (Respiratory organ involved)

- (i) Skin
 (ii) Gills
 (iii) Spiracles
 (iv) Lungs
 (B) P-(ii), Q-(i), R-(iv), S-(iii)
 (D) P-(i), Q-(iv), R-(iii), S-(ii)

ANSWER KEY

1. (D) 2. (D) 3. (D) 4. (A) 5. (B) 6. (C) 7. (C) 8. (C) 9. (D) 10. (A)