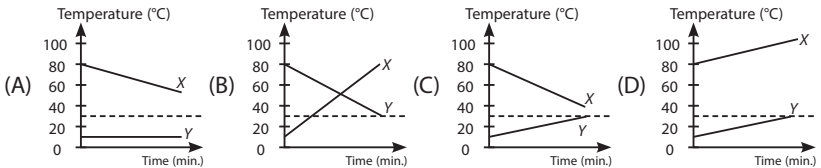
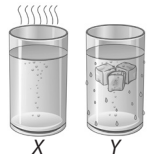


- (B) Body parts → Heart → Lungs → Body parts
 (C) Body parts → Lungs → Heart → Lungs → Body parts
 (D) Body parts → Heart → Lungs → Heart → Body parts

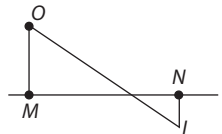
6. Two identical cups, X and Y are filled with water at different temperatures as shown in the given figures. They are placed in a room which is at a temperature of 30°C. Which one of the following graphs correctly shows the variation in the temperature of the water in the cups over a period of time?



7. Which of the following statements is correct regarding cross-pollination in plants?
 (A) It can occur between bisexual flowers only.
 (B) It does not require any external agents to transfer pollen.
 (C) It is a type of asexual reproduction.
 (D) It produces offspring with more genetic variation.
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. A luminous point object is placed at a point O as shown in the given figure. The image of O is formed at I. Line MN in the figure represents the optical axis.



Which of the following statement(s) is/are correct?

- (i) If a lens is used to obtain the image, then it must be a diverging lens and its optical centre will be the intersection point of lines MN and OI.
 (ii) If a mirror is used to obtain the image, then the mirror must be concave and object and image subtend equal angles at the pole of the mirror.
 (iii) Image I is real in nature.
- (A) (iii) only
 (B) (i) and (ii) only
 (C) (ii) and (iii) only
 (D) (i), (ii) and (iii)
10. Match column I with column II and select the correct option from the given codes.
- | Column I
(Plant) | Column II
(Vegetative propagule) |
|---------------------|-------------------------------------|
| P. <i>Oxalis</i> | (i) Bulb |
| Q. Turmeric | (ii) Runner |
| R. Garlic | (iii) Stolon |
| S. <i>Begonia</i> | (iv) Rhizome |
| T. Strawberry | (v) Adventitious leaf buds |
- (A) P-(iii), Q-(v), R-(i), S-(ii), T-(iv)
 (B) P-(i), Q-(ii), R-(iii), S-(iv), T-(v)
 (C) P-(iv), Q-(iii), R-(i), S-(ii), T-(v)
 (D) P-(ii), Q-(iv), R-(i), S-(v), T-(iii)

ANSWER KEY

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