

Solution of the day/Oct-29, 2018

6th Class

- **Mathematics:** Ans: (C)
- **Physics:** Ans: (B)
- **Chemistry:** Ans: (B)
- **Biology:** Ans: (A)

7th Class

- **Mathematics:** Ans: (A)
- **Physics:** Ans: 5°
- **Chemistry:** Ans: True
- **Biology:** Ans: (D)

8th class

- **Mathematics:** Ans: (C)
- **Physics:**

Sol: $m_A = \frac{l_A}{O_A}$; $m_B = \frac{l_B}{O_B}$ where $l_A = l_B$ and $O_A = 3O_B$

$$\therefore \frac{m_A}{m_B} = \frac{l_A}{l_B} \times \frac{O_B}{O_A} = 1 \times \frac{1}{3} = \frac{1}{3}, \quad \text{But } m_A = \frac{f}{f - u_A} \text{ and } m_B = \frac{f}{f - u_B}$$

$$\therefore \frac{m_A}{m_B} = \frac{f - u_B}{f - u_A}, \text{ Here } \frac{m_A}{m_B} = \frac{1}{3}; f = -7.5\text{cm}; u_A = -30\text{cm}$$

$$\therefore \frac{1}{3} = \frac{-7.5 - u_B}{-7.5 - (-30)} \text{ or } u_B = -15\text{cm}$$

- **Chemistry:** Ans: (A)
- **Biology:** Ans: (C)

9th Class

- **Mathematics:** Ans: (A)
- **Physics:** Ans: Principal focus
- **Chemistry:** Ans: (C)
- **Biology:** Ans: (B)

10th class

- **Mathematics:** Ans: (C)
- **Physics:** Ans: (A)
- **Chemistry:** Ans: (B)
- **Biology:** Ans: (B)
- **Reasoning :**
Ans: (D) In all other pairs, except (D) second is the unit to measure the first. On the other hand, barometer is an instrument to measure the atmospheric pressure.