

## Solution of the day/Oct-24, 2018

### 6<sup>th</sup> Class

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

### 7<sup>th</sup> Class

- **Mathematics:** Ans: (A)
- **Physics:** Ans: a-q, b-u, c-s, d-r, e-t, f-p
- **Chemistry:** Ans: Metalloids
- **Biology:** Ans: (C)

### 8<sup>th</sup> class

- **Mathematics:** Ans: (A)
- **Physics:**  
Sol:  $\frac{1}{f} = \frac{1}{u} + \frac{1}{v} \Rightarrow \frac{1}{-f} = \frac{1}{1.5f} + \frac{1}{v} \Rightarrow v = -3f$  Now magnification  $m = \frac{-v}{u} = -\frac{3f}{1.5f} = -2$   
 $\frac{h_2}{h_1} = -2 \Rightarrow h_2 = (-2)(3) = -6\text{cm} \Rightarrow -\text{ve sign indicates inverted image}$
- **Chemistry:** Ans: (B)
- **Biology:** Ans: (C)

### 9<sup>th</sup> Class

- **Mathematics:** Ans: (C)
- **Physics:** Ans: Concave mirror
- **Chemistry:** Ans: Metals conduct electricity because the attraction of the nucleus on the valance electrons is minimum. Hence, these electrons are free to move.

➤ **Biology:** Ans: (D)

**10<sup>th</sup> class**

➤ **Mathematics:** Ans: (D)

➤ **Physics:** Ans: (C)  $\frac{\mu g}{\mu \omega} = \frac{\frac{3}{2}}{\frac{4}{3}} = \frac{9}{8}$

➤ **Chemistry:** Ans: (A)

➤ **Biology:** Ans: (A)

➤ **Reasoning :**

**Sol. (B)** In all other groups, except PSVX, each letter moves 3 steps forward to obtain the next letter.