

Solution of the day/Oct-10, 2018

6th Class

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

7th Class

- **Mathematics:** Ans: (B)
- **Physics:** Ans: (D) The two mirrors on the adjacent walls will give three images .
$$\left(n = \left(\frac{360^\circ}{\theta} \right) - 1 = \left(\frac{360^\circ}{90^\circ} \right) - 1 = 4 - 1 = 3 \right)$$
 One mirror in the ceiling will give one image of the object and three images of the early formed images. Therefore, the total images will be seven.
- **Chemistry:** Ans: Sonority
- **Biology:** Ans: (A)

8th class

- **Mathematics:** Ans: (B)
- **Physics:** Ans: (B) $m = \frac{v}{u} = \frac{nu}{u}; \frac{1}{f} = \frac{(n-1)}{nu} \Rightarrow u = \frac{(n-1)}{n}f$
- **Chemistry:** Ans: (A)
- **Biology:** Ans: (C)

9th Class

- **Mathematics:** Ans: (A)
- **Physics:**
Ans: A mirror which is made from a part of a hollow sphere is called spherical mirror.

- **Chemistry:** Ans: It is easier to obtain a metal from its oxide, as compared to its sulphides and carbonates. Therefore, prior to reduction, the metal sulphides and carbonates are converted into metal oxides.
- **Biology:** Ans: (A)

10th class

- **Mathematics:** Ans: (D)
- **Physics:** Ans: (B) $\Rightarrow \mu = \frac{c}{V_m}; V_m = \frac{3}{\sqrt{2}} \times 10^8$
- **Chemistry:** Ans: (D)
- **Biology:** Ans: (A)
- **Reasoning :**

Sol. The sequence is a combination of two series.

I 14, 12, 9, 4, (.....) and

II 15, 16, 18, 21

The pattern followed in I is -2, -3, -5, \ missing number = 4 - 7 = - 3 **Ans.** - 3