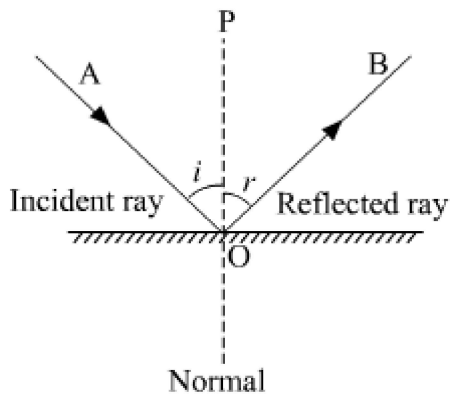


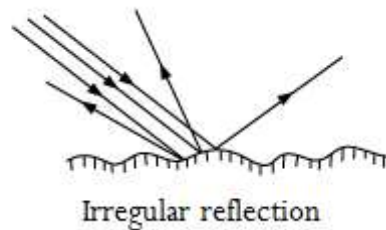
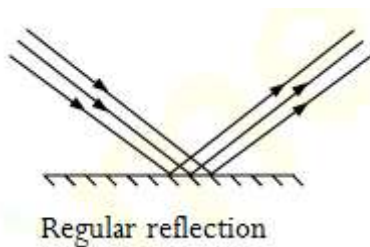
## 16. Reflection of Light

- A mirror forms images by the reflection of light.
- The images formed by mirrors are **virtual**, **erect**, and of **same size** as the object.
- **Left-Right Inversion**: The left of an image formed by a plane mirror appears as right and its right appears as left.
- A mirror changes the direction of light that fall on it.
- Reflection of light makes things visible.
- **Laws of reflection**:



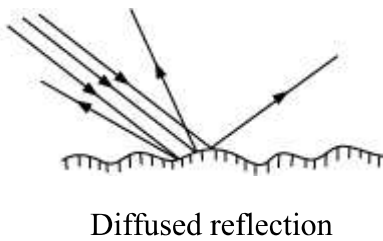
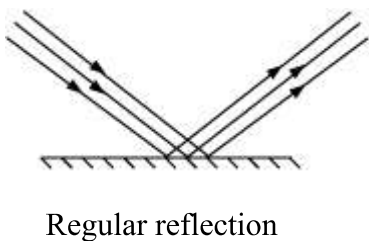
- $i$  (Angle of incidence) =  $r$  (Angle of reflection)
- AO, OP, and OB lie on the same plane.

### • Regular and irregular reflection



#### ◦ Regular reflection

#### Irregular and diffused reflection



- The laws of reflection are valid in regular as well as irregular or diffused reflections.

- Smooth or polished surfaces gives regular reflection.
- Uneven or unpolished surfaces gives irregular reflection.
- Objects that give their own light are known as **luminous objects**
- Objects that are visible because of reflected light are known as **illuminated objects**.