



# PRACTICE WORKSHEET

**Subject:** Physics

**Class:** CBSE 10<sup>th</sup>

**Chapter:** Light - Reflection

**Worksheet:** P-1(a)

## TYPE/TOPIC OF QUESTIONS: LAWS OF REFLECTION

1. State the laws of reflection.

## TYPE/TOPIC OF QUESTIONS: REFLECTION ON PLANE MIRRORS

2. Draw a neatly labelled ray diagram showing the formation of image due to reflection on a plane mirror
3. State the 5 characteristics of the image formed by plane mirrors.

## TYPE/TOPIC OF QUESTIONS: REFLECTION ON CURVED MIRROR

1. Draw a neatly labelled ray diagram showing the formation of image due to reflection on a concave mirror in each of the cases:
  - a. Object is placed at infinity
  - b. Object is placed beyond C
  - c. Object is placed at C
  - d. Object is placed between C and F
  - e. Object is placed at F
  - f. Object is placed between F and P
2. State the characteristics of the image formed due to reflection on a concave mirror in each of the cases:
  - a. Object is placed at infinity
  - b. Object is placed beyond C
  - c. Object is placed at C
  - d. Object is placed between C and F
  - e. Object is placed at F
  - f. Object is placed between F and P
3. Draw a neatly labelled ray diagram showing the formation of image due to reflection on a convex mirror in each of the cases:
  - a. Object is placed at infinity
  - b. Object is placed between infinity and P
4. State the characteristics of the image formed due to reflection on a convex mirror in each of the cases:
  - a. Object is placed at infinity
  - b. Object is placed between infinity and P

## TYPE/TOPIC OF QUESTIONS: MIRROR FORMULA

5. An object (height = 1 cm) is placed at a distance of 10 cm from a convex mirror of focal length 15 cm. Find the position and nature of the image (use mirror formula)? Verify the result using ray diagram.
6. A 4.0-cm tall light bulb is placed a distance of 8 cm from a concave mirror having a focal length of 15 cm. Determine the image distance and the image size. Also state the image characteristics. Verify the result using ray diagram.
7. A convex mirror with radius of curvature of 30 cm is placed in front of an object of size 2 cm, which is located at 1 cm from it. Where is image of the object located & state its characteristics? Verify the result using ray diagram.

