

## CHAPTER-11 | Light, Shadows and Reflections

QUIZ  
PART-04

1. A pinhole camera forms image by:

- A. Reflection
- B. Refraction
- C. Straight line travel of light
- D. Diffusion (C)

*Explanation:* Based on rectilinear propagation.

2. Image in pinhole camera is:

- A. Erect
- B. Inverted
- C. Same direction
- D. Virtual (B)

*Explanation:* Image appears upside down.

3. Pinhole camera image is:

- A. Real
- B. Virtual
- C. Imaginary
- D. Reflective (A)

*Explanation:* Image forms on screen.

4. A periscope works on principle of:

- A. Refraction
- B. Diffusion
- C. Multiple reflection
- D. Absorption (C)

*Explanation:* Light reflects between mirrors.

5. Mirrors in periscope are placed at:

- A.  $90^\circ$
- B.  $45^\circ$
- C.  $60^\circ$
- D.  $180^\circ$  (B)

*Explanation:* Mirrors fixed at  $45^\circ$ .

6. Periscopes are used in:

- A. Classrooms
- B. Submarines
- C. Kitchens
- D. Fields (B)

*Explanation:* Used to see over obstacles.

7. Kaleidoscope produces:

- A. Images of objects
- B. Symmetrical patterns
- C. Shadows
- D. Heat (B)

*Explanation:* Multiple reflections create patterns.

8. Kaleidoscope contains:

- A. One mirror
- B. Two or more mirrors
- C. Water
- D. Lens (B)

*Explanation:* Multiple reflecting surfaces.

9. Image in pinhole camera is coloured:

- A. True
- B. False
- C. Only black
- D. Only white (A)

*Explanation:* Colour of object appears.

10. Pinhole camera screen is usually:

- A. Opaque
- B. Translucent
- C. Transparent
- D. Metallic (B)

*Explanation:* Translucent screen shows image.