

EXERCISES

A. Multiple Choice Questions

1. A mirror changes the direction of light that falls on it. This property is called ____ of light.
(a) changing (b) bending (c) spreading (d) reflection
2. Which is not a characteristics of the image formed by a plane mirror?
(a) virtual (b) behind the mirror (c) erect (d) real
3. What type of a reflective surface is used to make reflectors of head lights?
(a) convex mirror (b) concave mirror (c) convex lens (d) concave lens
4. Which of the following is used by a dentist to view the teeth?
(a) convex mirror (b) concave mirror (c) convex lens (d) concave lens
5. Which of the following is used in the peep-holes of the doors?
(a) convex mirror (b) concave mirror (c) convex lens (d) concave lens
6. A virtual image larger than the object can be produced by
(a) convex mirror (b) concave mirror (c) convex lens (d) concave lens
7. Which property of light is responsible for the formation of a rainbow?
(a) reflection (b) dispersion of light
(c) radiation (d) rectilinear propagation of light
8.  Two groups of students were given one mirror each. Group A observed the image to be erect and of same size whereas group B found the image to be erect and smaller in size. Which of the following is correct?
(a) A - plane mirror and B - concave mirror (b) A - concave mirror and B - convex mirror
(c) A - plane mirror and B - convex mirror (d) A - convex mirror and B - plane mirror
9.  Anvita has two mirrors, concave and convex and two lenses, concave and convex. She wants to obtain an enlarged image of an object. Which mirror or lens should she use?
(a) concave mirror or convex mirror. (b) concave mirror or convex lens.
(c) concave mirror or concave lens. (d) concave lens or convex lens.

D. Match the following

Column A

1. Used as a magnifying glass
2. Image is always erect and diminished.
3. Image is erect and upright.
4. Image is erect and smaller in size.
5. Used as a cosmetic mirror.

Column B

- (a) Convex mirror
- (b) Convex lens
- (c) Concave lens
- (d) Concave mirror
- (e) Plane mirror

E. Name the following

1. The phenomenon by which the image of mountains and clouds can be seen in still water.
2. Kind of mirror in which the curved reflective surface bulges inwards.
3. Splitting of white light into seven colours.
4. Type of lenses that produce virtual, erect and magnified image.
5. Kind of image that cannot be obtained on a screen.