

Activity 06 Convex Lenses MCQ

02. The refractive index of a lens material is μ and focal length fd. Due to some chemical changes in the material, its refractive index has increased by 2%. The percentage

Answer all the questions below.

a) 4%b) 2%c) 6%

01. Convex lens is also known as?
a) converging lens
b) diverging lens
c) conducting lens
d) dispersing lens

decrease, in focal length for μ =1.5 will be

d)	8%
03. Which	of the following statements is/are correct?
a)	The lens has two principal foci, but may have one focal length
b)	A single lens can never bring a beam of white light to a point focus
c)	A burning glass brings light rays to same focus as heat radiation
d)	Both (a) and (b) are correct
-	blacement method we use a lens of focal length f and distance between object and is 60 cm. Possible values for focal length is
a)	−15 cm
b)	30 cm
c)	12 cm
d)	20 cm
	vex lens, of focal length 30 cm, a concave lens of focal length 120 cm, and a plane
mirror	are arranged as shown. For an object kept at a distance of 60 cm from the convex
lens, t	he final image, formed by the combination, is a real image, at a distance of:
a)	60 cm from the convex lens
b)	60 cm from the concave lens
$\frac{c}{c}$	70 cm from the convex lens
d)	70 cm from the concave lens

- 06. A convex lens is put 10cm from a light source and it makes sharp images on a screen, kept 10 cm from the lens. Now a glass block (refractive index 1.5) of 1.5 cm thickness is placed in contact with the light source. To get the sharp image again, the screen is shifted by a distance d. Then d is:
 - a) 1.1 cm away from the lens
 - \overline{b}) 0
 - c) 0.55 cm towards the lens
 - d) 0.55 cm away from the lens
- 07. When can a convex lens form a real image?
 - a) beyond focus
 - b) beyond optical centre
 - c) beyond focus and curvature
 - d) beyond centre of curvature
- 08. What will be the image formed by convex lens?
 - a) magnifies
 - b) sharpens
 - c) shrinks
 - d) none of these