

ECAT Physics Chapter 9 Physical Optics Online Test

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Sr 1	Questions When the same object is viewed at a shorter distance, the image on the retina of the eye is the so the object appears:	Answers Choice A. Greater, smaller B. Smaller, smaller C. Smaller, larger D. Greater, larger
2	A virtual image is formed when object is placed:	A. Within focal length of a convex lens B. Near the focal point of a concave lens C. Both A and B D. Away from 2F of a convex lens
3	For the virtual image, option is not correct:	A. 1/p = 1/f -1/q B. 1/f = 1/p -1/q C. 1/p=1/p-1/f D. 1/p=1/f+1/q
4	A ray passing through optical center of a lens, after refraction:	A. Passes through focus B. Go deviated C. Retraces its path D. Both B and C
5	If the object and its image are located at a distance of 5 cm from the focus of a convex lens, the focus length of the lens will be:	A. 5 cm B. 10 cm C. 20 cm D. 25 cm
6	Conventionally, all the distance p, q, f are measured from of the lens:	A. Focus B. Optical center C. Edges D. None of these
7	Least distance of distinct vision of an old man possibly becomes:	A. A little less than 25 cm B. A little more than 25 cm C. Much less than 25 cm D. None of these
8	The ratio of the diameter of two convex lenses isthe ratio of their focal lengths:	A. Greater than B. Less than C. Equal to D. None of these
9	If the focal length of the convex lens is 5 cm, then to get the real and inverted image of the same size as that of object, the object should be placed at:	A. 15 cm B. 20 cm C. 10 cm D. 5 cm
10	If the focal length of the convex lens is 5 cm, then to get the real and inverted image of the same size as that of object, the object should be placed at:	A. 5 cm B. 10 cm C. 20 cm D. 15 cm
11	How is the image formed by a convex lens affected if the upper half of the lens is covered with a paper:	A. The upper half of the image is cut off B. The brightness of the image is reduced C. The brightness of the image is increased D. No effect at all
12	If the object is situated at focus of a convex lens, then its image is formed at:	A. F B. 2F C. Infinity D. None of these
13	When the object lies between F and 2F, the image formed by is formed at:	A. Virtual B. Diminished C. Erect D. Real
14	When the object lies between F and 2F, the image formed by is formed at:	A. Real B. Virtual C. Diminished D. Erect

A convex lens acts as diverging lens when the object is placed:

A. Beyond 2F B. At 2F C. With focal length D. Between F and 2F