

## Ray Optics Answers

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### Ray Optics Class 12 Important Questions with Answers - eSaral

Answer. Answer: (B) 5 D, 66.7 cm. 6. When a thin convex lens of glass 5D is immersed in a liquid, it behaves as a divergent lens of focal length 100 cm. What is the refractive index of the liquid? (A)  $\frac{1}{3}$  (B)  $\frac{2}{3}$  (C)  $\frac{3}{5}$  (D)  $\frac{5}{3}$ . Answer. Answer: (D)  $\frac{5}{3}$ . 7. The magnifying power of an astronomical telescope in normal adjustment is 100.

### MCQ Questions for Class 12 Physics Chapter 9 Ray Optics

Download Ray Optics Previous Year Solved Questions PDF. JEE Main Previous Year Solved Questions on Ray Optics. Q1: A convex lens is put 10 cm from a light source and it makes a sharp image 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.

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NCERT Solutions for Class 12 Physics Chapter 9 Ray Optics and Optical Instruments. Question 1. A small candle, 2.5 cm in size is placed at 27 cm in front of a concave mirror of radius of curvature 36 cm. At what distance from the mirror should a screen be placed in order to obtain a sharp image? Describe the nature and size of the image.

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Recent questions and answers in Ray Optics and Optical Instruments Questions >> JEEMAIN and NEET >> Physics >> Class12 >> Ray Optics and Optical Instruments. A person looks in to a spherical mirror . The size of image of his face is twice the actual size of his face. If the face

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Answer: C Let  $d_o$  be the distance from lens to object,  $d_i$  distance from lens to the image and  $f$  be the focal length. Let  $h_i$  be the height of the image and  $h_o$  be the height of the object.

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Ray optics class 12 Questions and Answers pdf 11. A convex lens and a concave lens, each having the same focal length of 25 cm, are put in contact to form a combination of lenses. The power of the combination (in dioptres) is (a) zero (b) 25 (c) 50 (d) infinity. Answer/Explanation. Answer: Explanation:

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Ray Optics and Optical Instruments Class 12 Important Questions Long Short Answer Type Question 134. (a) For a ray of light travelling from a denser medium of refractive index  $n_1$  to a rarer medium of refractive index  $n_2$ , prove that  $\sin i_c = \frac{n_2}{n_1}$ , where  $i_c$  is the critical angle of incidence for the media.

### Ray Optics Problems and Answers - Physics Chapterwise

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### Ray Optics Answers

Hope you like these ray optics class 12 important questions with answers. With ray optics class 12 topic you can important questions with answers and notes of other topics of both classes(11 & 12). Q. When light of two colours A and B is passed through a plane boundary A is bent more than B. Which colour travels more slowly in the second medium .

### Optics Questions with Solutions - Physics

Ray Optics: Question and Answer. 1. What is the distance between two convex lenses  $L_A$  and  $L_B$  with focal lengths  $F_A$  and  $F_B$ ?  $F_A + F_B$ ;  $F_A - F_B$ ;  $F_A$ ;  $F_B$ ;  
Answer: (a)  $F_A + F_B$ . 2. If a medium has a critical angle for total internal reflection from the medium to vacuum as  $30^\circ$ , what is the velocity of light in the medium?  
 $0.5 \times 10^8$  m/s;  $3 \times 10^8$  m/s;  $1.5 \times 10^8$  m/s;  $0.2 \times 10^8$  m/s

### Ray Optics MCQs for NEET 2020 - BYJUS

Ray Optics Physics Chapterwise Questions and Answers. Five lumen/watt is the luminous efficiency of a lamp and its luminous intensity is 35 candela.

### Important Questions for CBSE Class 12 Physics Chapter 9

2nd PUC Physics Ray Optics and Optical Instruments NCERT Text Book Questions and Answers Question 1. A small candle, 2.5 cm in size is placed at 27 cm in front of a concave mirror of radius of curvature 36 cm.

### 2nd PUC Physics Question Bank Chapter 9 Ray Optics and

Solutions to Above Questions. Light is an electromagnetic wave that can propagate in vacuum with a maximum speed of approximately  $3 \times 10^8$  m/s. Answer: C.  $v = 50\% c$  ( $c$  speed of light in vacuum) Definition of refractive index  $n$ :  $n = c / v$ .  $n = c / 50\% c = 2.0$ . Answer: D.  $i_c = \arcsin (1.45/1.5) = 75^\circ$ .

### Bing: Ray Optics Answers

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Answer: When the bird is flying high in the air, it is in a rare medium whereas the air near the ground is denser medium. When we see the bird, the light rays from the bird's body travel from a rarer to denser medium, hence, the light rays bend towards the normal.

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