

## Geometrical Optics

Sr	Questions	Answers Choice
1	An object of placed at he centre of curvature of a concave mirror. The image produced by the mirror is located:	<p>A. out beyond the centre of curvature.</p> <p><b>B. at the centre of curvature</b></p> <p>C. between the centre of curvature and the focal point</p> <p>D. at the focal point</p>
2	Which types of image is produced by the converging lens of human eye if it view a distant object?	<p>A. Real , erect, same size</p> <p><b>B. Real, inverted, diminshed</b></p> <p>C. Virtual, erect,diminished</p> <p>D. Virtual, inverted, magnified</p>
3	Astronauts in space need to communicate with each other by radio links because:	<p>A. <p class="MsoNormal">Sound waves travel very slowly in space&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p></p>
4	The distance between principal focus and pole of mirror is called:	<p>A. Principal focus</p> <p><b>B. Focal length</b></p> <p>C. P</p> <p>D. Image</p>
5	The ratio of image height to object height is called:	<p><b>A. Linear magnification</b></p> <p>B. Power</p> <p>C. Refraction</p> <p>D. Radius of curative</p>
6	Snell's law is stated as:	<p>A. <math>\sin i / \sin r = n_1/n_2</math></p> <p><b>B. <math>\sin i / \sin r = n_2/n_1</math></b></p> <p>C. <math>\sin r / \sin i = n_2/n_1</math></p> <p>D. <math>\sin r / \sin i = 2n_2/n_1</math></p>
7	The totally reflectiing prism one angle is of:	<p>A. <math>45^{\circ}</math></p> <p><b>B. <math>90^{\circ}</math></b></p> <p>C. <math>180^{\circ}</math></p> <p>D. <math>120^{\circ}</math></p>
8	Speed of light in air is $\text{ms}^{-1}$	<p><b>A. <math>3 \times 10^8</math></b></p> <p>B. <math>3 \times 10^{11}</math></p> <p>C. <math>3 \times 10^5</math></p> <p>D. 340</p>
9	The loudness of a sound is most closely related to its:	<p>A. <p class="MsoNormal">Frequency&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p></p>
10	The data stored in C.D is:	<p>A. <p class="MsoNormal">680 MB&lt;o:p&gt;&lt;/o:p&gt;&lt;/p&gt;</p></p>
11	Critical angle for diamond is:	<p>A. <math>60^{\circ}</math></p> <p><b>B. <math>24^{\circ}</math></b></p> <p>C. <math>26^{\circ}</math></p> <p>D. <math>49^{\circ}</math></p>

12	Which types of image is formed by a concave lens on a screen?	A. Inverted and real B. Inverted and virtual C. upright and real D. Upright and virtual
13	After refraction from a convex lens, rays of light parallel to the principal axis converge at a point, this point of convex lens is called:	A. Principal focus B. Pole C. Focal length D. Optical center
14	Image formed on a camera is:	A. real, inverted, and diminished B. virtual, upright and diminished C. virtual, upright and magnified D. real, inverted and magnified
15	The S.I unit of power of a lens is:	A. Dioptre B. Volt C. Ampere D. Watt
16	The mirror whose inner surface is reflecting is called:	A. Concave mirror B. Convex mirror C. Mirror D. Lens
17	Half of radius of curvature is called:	A. Focal length B. Principal focus C. Axis D. None of these
18	Hard disk is made of:	A. Aluminium B. Copper C. Iron D. Plastic
19	The distance of image from mirror is represented by:	A. q B. p C. F D. m
20	The critical angle for glass to:	A. 24° B. 48° C. 42° D. 50°