

Geometrical Optics

Sr	Questions	Answers Choice
1	Concave mirror formula is given by:	<p>A. $R = 2r$</p> <p>B. $\sin i / \sin r$</p> <p>C. $1/f = 1/p + 1/q$</p> <p>D. $1/f = 1/p - 1/q$</p>
2	Which of the following is not processing:	<p>A. <p>Arranging</p></p> <p>B. <p>Manipulating</p></p> <p>C. <p>Calculating</p></p> <p>D. <p>Gathering</p></p>
3	Magnification of mirror is given by:	<p>A. $m = p/q$</p> <p>B. $m = q/p$</p> <p>C. $m = pxq$</p> <p>D. $m = 1/p + q$</p>
4	A data storage device is:	<p>A. <p>Printer</p></p> <p>B. <p>Hard disk</p></p> <p>C. <p>Monitor</p></p> <p>D. <p>CPU</p></p>
5	The critical angle for glass to:	<p>A. 24°</p> <p>B. 48°</p> <p>C. 42°</p> <p>D. 50°</p>
6	Half of radius of curvature is called:	<p>A. Focal length</p> <p>B. Principal focus</p> <p>C. Axis</p> <p>D. None of these</p>
7	Speed of light in air is ms^{-1}	<p>A. 3×10^8</p> <p>B. 3×10^{11}</p> <p>C. 3×10^5</p> <p>D. 340</p>
8	The minimum value of angle of deviation is called:	<p>A. Minimum angle</p> <p>B. incident angle</p> <p>C. angle of minimum deviation</p> <p>D. None of these</p>
9	Snell' law is:	<p>A. $n = \sin i / \sin r$</p> <p>B. $n = \sin i / \sin r$</p> <p>C. $n = \sin r / \sin i$</p> <p>D. i / r</p>
10	Mathematical relationship between critical angle "C" and refractive index "n" is:	<p>A. $N = C$</p> <p>B. $N = 1 / \sin c$</p> <p>C. $N = 1 / \cos c$</p> <p>D. $N = 1 / \sin^2 c$</p>
11	When a ray of light enters from denser medium to rare medium, the angle of incidence for which angle of refraction is 90° is called:	<p>A. angle of incidence</p> <p>B. critical angle</p> <p>C. angle of refraction</p> <p>D. None of these</p>
12	The centre of spherical mirror is called:	<p>A. Focus</p> <p>B. Axis</p> <p>C. Centre</p> <p>D. Pole</p>
13	The mirror whose outer surface is reflecting is called:	<p>A. Concave mirror</p> <p>B. Convex mirror</p>

		C. Lens D. Mirror
14	Optical fibers work on the principle of:	A. Refraction B. Reflection C. Total internal reflection D. Diffraction
15	What does the term e-mail stand for:	A. <p class="MsoNormal">Emergency mail</o:p></o:p></p> B. <p class="MsoNormal">Electronic mail</p> C. <p class="MsoNormal">Extra mail</o:p></o:p></p> D. <p class="MsoNormal">External mail</o:p></o:p></p>
16	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
17	The ray of light striking to the side of prism is called:	A. refraction ray B. incident ray C. reflected ray D. emergent ray
18	If focal length of a lens is 1m, then its power will be:	A. 1 D B. 0.5 D C. 1.5 D D. 1 D
19	Snell's law is stated as:	A. $\sin i / \sin r = n_1/n_2$ B. $\sin i / \sin r = n_2/n_1$ C. $\sin r / \sin i = n_2/n_1$ D. $\sin r / \sin i = 2n_2/n_1$
20	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