

## Geometrical Optics

Sr	Questions	Answers Choice
1	Which of the following quantities is not change during refraction of light?	A. Its direction B. Its speed C. its frequency D. Its wavelength
2	The mirror whose outer surface is reflecting is called:	A. Concave mirror B. Convex mirror C. Lens D. Mirror
3	From which of the following we can get information almost about everything:	A. <p class="MsoNormal">Book</p></o:p></p> B. <p class="MsoNormal">Teacher</p></o:p></p> C. <p class="MsoNormal">Computer</p></o:p></p> D. <p class="MsoNormal">Internet</p></o:p></p>
4	Mathematical relationship between critical angle "C" and refractive index "n" is:	A. $N = C$ B. $N = 1 / \sin c$ C. $N = 1 / \cos c$ D. $N = 1 / \sin^2 c$
5	A normal eye can see near objects clearly at a distance of:	A. 20 cm B. 25 cm C. 30 cm D. 35 cm
6	The critical angle for glass to:	A. $24^{\circ}$ B. $48^{\circ}$ C. $42^{\circ}$ D. $50^{\circ}$
7	An example of input device computer is:	A. <p class="MsoNormal">Keyboard</p></o:p></p> B. <p class="MsoNormal">printer</p></o:p></p> C. <p class="MsoNormal">monitor</p></o:p></p> D. <p class="MsoNormal">RAM</p></o:p></p>
8	An object is 14 cm is front of a convex mirror. The image is 5.8 cm behind the mirror. What is the focal length of the mirror?	A. 4.1 cm B. 8.2 cm C. 9.9 cm D. 20 cm
9	Spherical mirrors are used in:	A. Medical B. Search light C. Microscope D. All of these
10	Which is an example of a longitudinal wave:	A. <p class="MsoNormal">Sound wave</p></o:p></p> B. <p class="MsoNormal">Light wave</p></o:p></p> C. <p class="MsoNormal">Radio wave</p></o:p></p> D. <p class="MsoNormal">Water wave</p></o:p></p>
11	_____ is always virtual in case of convex mirror.	A. p B. image C. object D. all of these
12	The critical angle for a beam of light passing from water into air is 48.8 degrees. This mean that all light ravs with an angle of incidence greater than this angle will be:	A. Absorbed B. Totally reflected C. Partially reflected and partially

		transmitted D. Totally transmitted
13	Which form of energy is sound:	<p>A. <span style='font-size:11.0pt;line-height:107%; font-family:"Calibri",sans-serif;mso-ascii-theme-font:minor-latin;mso-fareast-font-family:Calibri;mso-fareast-theme-font:minor-latin;mso-hansi-theme-font:minor-latin;mso-bidi-font-family:Arial;mso-bidi-theme-font:minor-bidi;mso-ansi-language:EN-US;mso-fareast-language:AR-SA'>Electrical</span></p> <p>B. <span style='font-size:11.0pt;line-height:107%; font-family:"Calibri",sans-serif;mso-ascii-theme-font:minor-latin;mso-fareast-font-family:Calibri;mso-fareast-theme-font:minor-latin;mso-hansi-theme-font:minor-latin;mso-bidi-font-family:Arial;mso-bidi-theme-font:minor-bidi;mso-ansi-language:EN-US;mso-fareast-language:AR-SA'>mechanical</span></p> <p>C. <span style='font-size:11.0pt;line-height:107%; font-family:"Calibri",sans-serif;mso-ascii-theme-font:minor-latin;mso-fareast-font-family:Calibri;mso-fareast-theme-font:minor-latin;mso-hansi-theme-font:minor-latin;mso-bidi-font-family:Arial;mso-bidi-theme-font:minor-bidi;mso-ansi-language:EN-US;mso-fareast-language:AR-SA'>Thermal</span></p> <p>D. <span style='font-size:11.0pt;line-height:107%; font-family:"Calibri",sans-serif;mso-ascii-theme-font:minor-latin;mso-fareast-font-family:Calibri;mso-fareast-theme-font:minor-latin;mso-hansi-theme-font:minor-latin;mso-bidi-font-family:Arial;mso-bidi-theme-font:minor-bidi;mso-ansi-language:EN-US;mso-fareast-language:AR-SA'>Chemical</span></p>
14	Snell's law is stated as:	<p>A. <math>\sin i / \sin r = n_1/n_2</math></p> <p>B. <math>\sin i / \sin r = n_2/n_1</math></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>
15	To see stomach problems we use:	<p>A. Gastroscope</p> <p>B. Bronchoscope</p> <p>C. Cystoscope</p> <p>D. All of these</p>
16	The S.I unit of power of a lens is:	<p>A. Dioptre</p> <p>B. Volt</p> <p>C. Ampere</p> <p>D. Watt</p>
17	The refractive index of internal coating of optical fibre is:	<p>A. 1.56</p> <p>B. 1.51</p> <p>C. 1.53</p> <p>D. 1.58</p>
18	What does the term e-mail stand for:	<p>A. <p class="MsoNormal">Emergency mail</p></p> <p>B. <p class="MsoNormal">Electronic mail</p></p> <p>C. <p class="MsoNormal">Extra mail</p></p> <p>D. <p class="MsoNormal">External mail</p></p>
19	Magnification of mirror is given by:	<p>A. <math>m=p/q</math></p> <p>B. <math>m=q/p</math></p> <p>C. <math>m=pxq</math></p> <p>D. <math>m=1/p+q</math></p>
20	Speed of light in air is $\text{ms}^{-1}$	<p>A. <math>3 \times 10^8</math></p> <p>B. <math>3 \times 10^{11}</math></p> <p>C. <math>3 \times 10^5</math></p> <p>D. 340</p>

