

## Geometrical Optics

Sr	Questions	Answers Choice
1	The refractive index of air is:	A. 6 B. 7 C. 2 D. 1,0003
2	When the object is placed beyond 2F of a convex lens, the image formed will be:	A. Real, inverted and smaller than the object B. Real, inverted and of the same size as the object C. Real, inverted and larger in size than the object D. Virtual, erect and larger in size than the object
3	A converging mirror with a radius of 20 cm creates a real image 30 cm from the mirror. What is the object distance?	A. 5.0 cm B. 7.5 cm C. 15 cm D. 20 cm
4	The refractive index of internal coating of optical fibre is:	A. 1.56 B. 1.51 C. 1.53 D. 1.58
5	Snell' law is:	A. $n = \sin i / \sin r$ B. $n = \sin i / \sin r$ C. $n = \sin r / \sin i$ D. $i / r$
6	Critical angle for diamond is:	A. $60^\circ$ B. $24^\circ$ C. $26^\circ$ D. $49^\circ$
7	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
8	The minimum value of angle of deviation is called:	A. Minimum angle B. incident angle C. angle of minimum deviation D. None of these
9	When a ray of light enters from denser medium to rare medium, the angle of incidence for which angle of refraction is $90^\circ$ is called:	A. angle of incidence B. critical angle C. angle of refraction D. None of these
10	Sun light consist of _____ colour	A. 6 B. 7 C. 5 D. 2
11	If a ray of light is glass is incident on an air surface at an angle greater than the critical angle, the ray will.	A. refract only B. reflect only C. partially refract and partially reflect D. Diffract only
12	Hard disk is made of:	A. <p>Aluminium</p> B. <p>Copper</p> C. <p>Iron</p> D. <p>Plastic</p>
13	The S.I unit of power of a lens is:	A. Dioptre B. Volt C. Ampere D. Watt

14	Mathematical relationship between critical angle "C" and refractive index "n" is:	<p>A. <math>N = C</math></p> <p>B. <math>N = 1 / \sin c</math></p> <p>C. <math>N = 1 / \cos c</math></p> <p>D. <math>N = 1 / \sin^2 c</math></p>
15	CD which is made of soft material is called:	<p>A. Hard disk</p> <p>B. Floppy disk</p> <p>C. Iron disk</p> <p>D. Copper disk</p>
16	The angle of which prism deviates the incident ray is called:	<p>A. angle of incident</p> <p>B. angle of reflection</p> <p>C. angle of deviation</p> <p>D. angle of minimum deviation</p>
17	The distance between principal focus and pole of mirror is called:	<p>A. Principal focus</p> <p>B. Focal length</p> <p>C. P</p> <p>D. Image</p>
18	Astronauts in space need to communicate with each other by radio links because:	<p>A. Sound waves travel very slowly in space</p> <p>B. Sound waves travel very fast in space</p> <p>C. Sound waves cannot travel in space</p> <p>D. Sound waves have low frequency in space</p>
19	The data stored in C.D is:	<p>A. 680 MB</p> <p>B. 650 MB</p> <p>C. 700 MB</p> <p>D. 750 MB</p>
20	An object is placed at the 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. at the centre of curvature</p> <p>C. between the centre of curvature and the focal point</p> <p>D. at the focal point</p>