

## Geometrical Optics

Sr	Questions	Answers Choice
1	The critical angle for a beam of light passing from water into air is 48.8 degrees. This means that all light rays 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
2	Power of lens is:	A. $q/p$ B. $1/q$ C. $1/p$ D. $1/f$
3	The distance of the object from the mirror is represented by :	A. $q$ B. $p$ C. $m$ D. $F$
4	Speed of light in air is $\text{ms}^{-1}$	A. $3 \times 10^8$ B. $3 \times 10^{11}$ C. $3 \times 10^5$ D. 340
5	The S.I unit of power of a lens is:	A. Dioptr B. Volt C. Ampere D. Watt
6	The minimum value of angle of deviation is called:	A. Minimum angle B. incident angle C. angle of minimum deviation D. None of these
7	CD which is made of soft material is called:	A. Hard disk B. Floppy disk C. Iron disk D. Copper disk
8	Optical fibers work on the principle of:	A. Refraction B. Reflection C. Total internal reflection D. Diffraction
9	Hard disk is made of:	A. Aluminium B. Copper C. Iron D. Plastic
10	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
11	The critical angle for glass to:	A. $24^\circ$ B. $48^\circ$ C. $42^\circ$ D. $50^\circ$
12	Half of radius of curvature is called:	A. Focal length B. Principal focus C. Axis D. None of these
13	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. Virtual, upright and smaller than the object D. Virtual, upright and larger than the object

		<p>C. Real, inverted and larger in size than the object</p> <p>D. Virtual, erect and larger in size than the object</p>
14	Focal length for concave mirror is :	<p>A. -ve</p> <p>B. +ve</p> <p>C. same</p> <p>D. none of these</p>
15	Totally reflecting prism turns the incident ray at an angle of:	<p>A. <math>90^\circ</math></p> <p>B. <math>60^\circ</math></p> <p>C. <math>75^\circ</math></p> <p>D. <math>45^\circ</math></p>
16	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>
17	If a ray of light is glass is incident on an air surface at an angle greater than the critical angle, the ray will.	<p>A. reflect only</p> <p>B. reflect only</p> <p>C. partially refract and partially reflect</p> <p>D. Diffract only</p>
18	An example of input device computer is:	<p>A. Keyboard</p> <p>B. printer</p> <p>C. monitor</p> <p>D. RAM</p>
19	The mirror whose inner surface is reflecting is called:	<p>A. Concave mirror</p> <p>B. Convex mirror</p> <p>C. Miroor</p> <p>D. Lens</p>
20	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>