Geometricl Optics

Sr	Questions	Answers Choice
1	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
2	Sun light consist of _____ colour	A. 6 B. 7 C. 5 D. 2
3	For a normal person audible frequency range for sound wave lies between:	A. 10 Hz and 10kHz<o:p></o:p> B. 20Hz and 20 kHz<o:p></o:p> C. 25 Hz and 25 kHz<o:p></o:p> D. 30Hz and 30 kHz<o:p></o:p>
4	Which is an example of a longitudinal wave:	A. Sound wave<o:p></o:p> B. Light wave<o:p></o:p> C. Radio wave<o:p></o:p> D. Water wave<o:p></o:p>
5	Power of convex lens is 10 D. Its focal length is:	A. 100 m B. 10 m C. 1 m D. 0.1 m
6	Magnification of mirror is given by:	A. m=p/q B. m=q/p C. m=pxq D. m=1/p+q
7	Which of the following quantities is not change during refraction of light?	A. Its direction B. Its speed C. its frequency D. Its wavelength
8	A data storage device is:	A. Printer<o:p></o:p> B. Hard disk<o:p></o:p> C. Monitor<o:p></o:p> D. CPU<o:p></o:p>
9	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
10	Snell's law is stated as:	A. Sin i / sin r = n1/n2 B. sin i / sin r = n2/n1 C. sin r / sin i = n2/n1 D. sin r / sin i = 2n2/n1
11	_____ is always virtual in case of convex mirror.	A. p B. image C. object D. all of these
		A. Aluminium<o:p></o:p>

12	Hard disk is made of:	B. Copper<o:p></o:p> C. Iron<o:p></o:p> D. Plastic<o:p></o:p>
13	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
14	Focal length for concave mirror is :	A. -ve B. +ve C. same D. none of these
15	The principal focus of a concave mirror is:	A. Virtual B. Real C. Imaginary D. Dual aspect
16	A normal eye can see near objects clearly at a distance of:	A. 20 cm B. 25 cm C. 30 cm D. 35 cm
17	The critical angle for a beam of light passing from water into air is 48.8 degrees. This mean that all light rays with an angle of incidence greater than this angle will be:	A. Absorbed B. Totallly reflected C. Partially reflected and partially transmitted D. Totally transmitted
18	Which types of image is produced by the converging lens of human eye if it view a distant object?	A. Real , erect, same size B. Real, inverted, diminshed C. Virtual, erect,diminshed D. Virtual, inverted, magnified
19	Speed of light in air is ms^{-1}	A. 3 x 10⁸ B. 3 x 10¹¹ C. 3 x 10⁵ D. 340
20	The loudness of a sound is most closely related to its:	A. Frequency<o:p></o:p> B. Period<o:p></o:p> C. Wavelength<o:p></o:p> D. Amplitude<o:p></o:p>