PPSC Physics Topic 4 Geometrical Optics

Sr	Questions	Answers Choice
1	The main advantage of step index fiber is.	A. The size of the cable B. The equality of the cbale C. Difference in the wavelengths of signals D. All of the above
2	Rainbows and mirage are formed by	A. Reflection only B. Refraction only C. dispersion only D. A combination of refraction, total internal refraction and dispersion
3	Which one of the following telescopes has the least length when set for parallel rays.	A. Astronomical telescope B. Galileo's telescope C. Terrestrial telescope D. Reflecting telescope
4	Which of the following are defects is lenses.	A. Chromatic aberration B. Spherical aberration C. Astigmation D. All of the above
5	The power of convex lens is 10 d. At what distance the 3 times larger image is formed.	A. 9.6 cm B. 2.3 cm C. 13.3 cm D. 17.6 cm
6	The minimum angle of incidence for which total internal reflection can occur is called.	A. Right angle B. Acute angle C. Critical angle D. Obtuse angle
7	To get large magnifying power of an astronomical telescope. we should have focal length of eye lens.	A. Small B. Large C. Of any value D. Infinity
8	What is the refractive power of cornea in humans.	A. 13 dioptres B. 23 diaoptres C. 33 dioptres D. 43 dioptres
9	The dioptre power of concave lens of 10 cm focal length is.	A. 0.1 dioptre B. 1.0 diopter C. 10 dioptre D. -10 dioptre
10	The line passing symmetrically though the optical center of the lens is.	A. Focal plane B. Principal focus C. Principal axis D. Focal length
11	Dioptre is the term used for describing the	A. Intensity of light B. Density of air C. Power of light D. Refractive index
12	The critical angle will be maximum when light travels from	A. Glass of air B. Water to air C. Water to glass D. Glass to water
13	If the image is virtual then its distance from the lens is taken.	A. Positive B. Negative C. Double D. Half
14	Which of the following is used for the failure of a lens to form a sharp and distinct image	A. Distortion B. Astigmation C. Chromatic aberration D. Spherical aberration
15	A convex mirror is used to reflect light from an object placed 66 cm in front of the mirror. The focal length of the mirror is 46 cm Find the location of the image.	A. 23 cm B. -23 cm C. -27 cm

		D. 27 cm
16	What is true is real images formed by a converging lens.	A. they are inverted B. They are on the same side of the lens as the object C. They can never be shown on a screen D. They cannot be seen
17	What would be the colour of sky n the absence of atmosphere.	A. Blue B. Indigo C. Red D. Black
18	In case of a convex lens, when object is placed at F	A. the image is formed beyond 2 F B. the image is formed between F and 2 F C. No image is formed D. the image is formed behind the object
19	Light entering glass will not suffer change in	A. Frequency B. wavelength C. Speed D. Direction
20	The distance between the optical centre and principal focus is	A. Focal plane B. Focal length C. Optical centre D. Principal axis