

PPSC Physics Topic 4 Geometrical Optics

Sr	Questions	Answers Choice
1	What is the type of corrective lens used to correct or enhance the vision is only one eye.	A. Axicon B. Monocle C. Zoom lens D. Camera lens
2	The length of Galilean telescope is given by	A. $f_o + f_e$ B. $f_o - f_e$ C. $1/f_o - 1/f_e$ D. $1/f_o = 1/f_e$
3	Clouds are white because they efficiently scatter sunlight of all	A. Colours B. Wavelengths C. Frequencies D. Phases
4	In a compound microscope magnification will be large if focal length of eyepiece is	A. Large B. small C. Equal to that of the objective D. Larger than that of the objective
5	The index of refraction depends on	A. the focal length B. The speed of light C. The image distance D. The object distance
6	What is zoom lens	A. It is a lens having fixed focal length B. It is a lens having variable focal length C. It is a lens used in radii to telescope D. All of the above
7	A double convex air bubble in water will behave as.	A. Plane slab B. Concave mirror C. Convex lens D. Concave lens
8	To reduce spherical aberration in optical instruments which of the following should be used.	A. Plano convex lenses B. Concave lenses C. Spherical mirrors D. Plane mirrors
9	Linear magnification is equal to the ratio of.	A. Size of the object to the size of the image B. Size of the image to the size of the object C. size of the object focal length D. Size of the image focal length
10	What is the focal length of a normal eye lens.	A. 1 mm B. 2 cm C. 25 cm D. 1 m
11	Since light rays are always diverged by concave lenses such lenses	A. Cannot form images B. Form only black and white images C. Form only inverted image D. Form only erect images
12	In compound microscope, image formed by the eyepiece is	A. Real B. Inverted C. Erect D. Diminished
13	The power of convex lens of focal length 50 cm will be	A. 1.0 dioptre B. 2.0 dioptre C. 4.0 dioptre D. 5.0 dioptre
14	Which of the following phenomenon is caused by the different speeds of light in differd optical media.	A. Reflection B. Refraction C. Diffraction D. Total internal reflection

15	Diopetre is the term used for describing the	A. Intensity of light B. Density of air C. Power of light D. Refractive index
16	The angle of incidence that causes the refracted ray in the rarer medium to bend through 90° is called.	A. Critical angle B. solid angle C. Plane angle D. Acute angle
17	Total internal reflection occurs when the angle of incidence is.	A. Greater than the angle of refraction B. Equal to the critical angle C. Greater than the critical angle D. Greater than 45°
18	The image of an object 5 mm high is only 1 cm high. The magnification of the lens is	A. 0.2 B. 0.5 C. 1 D. 2
19	The focal length of a thin converging lens is 10 cm What is the maximum distance from the lens that the object can be placed so the lens acts as a magnifying glass.	A. 5 cm B. 10 cm C. 15 cm D. 20 cm
20	Refractive index of a medium is define das.	A. speed of light in vaccum/speed of light in medium B. Speed of light in medium/Speed of light in vacuum C. Speed o flight in air/speed of light in medium D. Speed of light in medium/Speed of light in air