O P JINDAL SCHOOL, SAVITRINAGAR

ASSIGNMENT

CLASS X PHYSICS

11 The nature of image formed by a convex mirror when the object distance from the mirror is less than the distance between pole and focal point (F) of the mirror would be (a) real, inverted and diminished in size (b) real, inverted and enlarged in size (c) virtual, upright and diminished in size (d) virtual, upright and enlarged in size	1
12 If a man's face is 25 cm in front of concave shaving mirror producing erect image 1.5 times the size of face, focal length of the mirror would be (a) 75 cm (b) 25 cm (c) 15 cm (d) 60 cm	3
13 As light travels from a rarer to a denser medium it will have (a) increased velocity (b) decreased velocity (c) decreased wavelength (d) both (b) and (c)	1
14 The angle of incidence i and refraction r are equal in a transparent slab when the value of is	İ
(a) 0° (b) 45° (c) 90° (d) depend on the material of the slab	1
15 The refractive index of transparent medium is greater than one because (a) Speed of light in vacuum < speed of light in tansparent medium (b) Speed of light in vacuum > speed of light in tansparent medium (c) Speed flight in vacuum = speed of light in tansparent medium (d) Frequency of light wave changes when it moves from rarer to denser medium	1
16 The refractive index of water is 1.33. The speed of light in water will be (a) 1.33×10^8 m/s (b) 3×10^8 m/s (c) 2.26×10^8 m/s (d) 2.66×10^8 m/s	1

 17 You are given three media A, B and C of refractive index 1.33, 1.65 and 1.46. The medium in which the light will travel fastest is (a) A (b) B (c) C (d) equal in all three media 	n
18 Light from the Sun falling on a convex lens will converge at a point called (a) centre of curvature (b) focus (c) radius of curvature (d) optical centre	1
19 Large number of thin stripes of black paint are made on the surface of a convex lens of focal length 20 cm to catch the image of a white horse. The image will be (a) a zebra of black stripes (b) a horse of black stripes (c) a horse of less brightness (d) a zebra of less brightness	1
20 A divergent lens will produce (a) always real image (b) always virtual image (c) both real and virtual image (d) none of these	1