

1 Power of the lens is -40D, its focal length is

- a. 4m b. -40m c. -0.25m d. -25m

2. A ray of light is travelling in a direction perpendicular to the boundary of a parallel glass slab. The ray of light:

- (a) Is refracted towards the normal (b) Is refracted away from the normal
(c) Is reflected along the same path d) Does not get refracted

3. A lens has a power of +0.5D. It is:

- A) A concave lens of focal length 5 m B) A convex lens of focal length 2 m
C) A convex lens of focal length 5 m D) A concave lens of focal length 2 m

4. Which of the given can produce a virtual image larger in size than the object?

- A) Concave lens B) Convex lens
C) Convex concave lens D) None of these

5 A diverging lens will produce

- A) Always a virtual image B) Real or virtual image
C) Always real image D) None of these

6. When light enters from a rarer medium to a denser medium:

- A) Its frequency changes B) Wavelength does not change
C) Its wavelength changes D) Both wavelength and frequency change

7. The position of the image obtained by a convex lens when an object is kept at 2F1

- a. between F2 and 2F2 b. 2F2 C. beyond 2F2 d. at infinity

8. Which of the following are not the properties of convex lens?

- A. diverges the light rays b. forms real and inverted image
C. is thinner at edges and thicker at middle d. converges the light rays

9. 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)

10. 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

11. If the magnification produced by a lens has a negative value, the image will be

- (a) virtual and inverted (b) virtual and erect
(c) real and erect (d) real and inverted

12 The power of lens is -4.0D.what is the nature of lens

- a. convex lens b.concave lens c.plano convex d.planoconcave

13. You are given three media A, B and C with refractive index 1.33, 1.65 and1.46.The medium in which light will travel fast

- a. A b.B c.C d.all three

