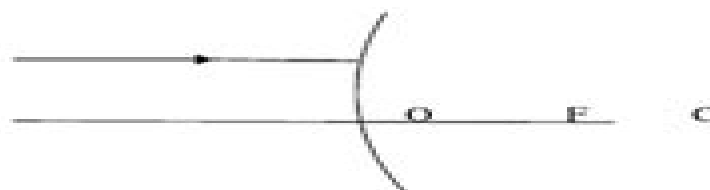
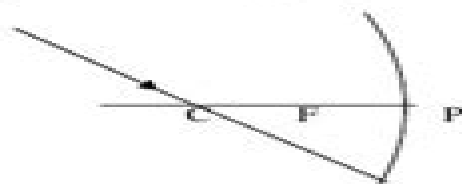


Refraction

1. What is light? What is its nature?
2. What is the speed of light in vacuum?
3. What is a mirror?
4. What is the focal length of a plane mirror?
5. Differentiate between real and virtual image.
6. What type of image is formed on a cinema screen?
7. A concave mirror is a part of sphere of radius 40 cm. What is the focal length of the mirror?
8. Radius of curvature of a mirror is 20 cm. What type of mirror is it?
9. Magnification of a mirror is $+2/3$. What type of mirror is it?
10. Complete the following diagrams:-



11. Magnification of a mirror is -1 . What type of mirror is it? What is the position of object and image? Give the nature of image.
12. Name the type of mirror used:-
 - (i) as a reflector in search light
 - (ii) as side view mirror in vehicles.
 - (iii) by the dentist
 - (iv) as a shaving mirror
13. Wherever you may stand in front of mirror, your image is always erect & same sized, what type of mirror is it?
14. (a) A ray of light strikes the mirror at an angle of 20° . What is the angle of reflection?
(b) Give the angle of incidence and reflection for normal incidence.
15. A candle is kept in front of plane mirror at distance of 15 cm. What is distance between candle & its image?
16. Radius of curvature of a mirror is $+24\text{cm}$. Name the kind of mirror and give the characteristics of the image formed by it.
17. Define refraction.
18. State the laws of refraction.
19. How does the lateral displacement depend upon:- (a) Thickness of the glass slab. (b) Angle of incidence
20. What is the lateral displacement when a ray of light falls normally on a glass slab?
21. Refractive index of water with respect to air is 1.33, what is refractive index of air with respect to water?
22. Under what condition, the angle of refraction will be equal to the angle of incidence?
23. Refractive index of glass is 1.65, what is the speed of light in glass?
24. If refractive indices of alcohol & water are 1.36 and 1.33 respectively, which of the two is optically denser?

Grade 10 Physics Test Questions

Marco Cascella



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