

Light - Reflection and Refraction - Class X - Paper Set 3

- The distance between the pole and the center of curvature of a spherical mirror is the:
 - Principal focus
 - Radius of curvature
 - Principal axis
 - Aperture
- A virtual, erect, and enlarged image is formed by a concave mirror when the object is placed:
 - Beyond the center of curvature
 - At the principal focus
 - Between the pole and the principal focus
 - At infinity
- A convex lens is also known as a:
 - Diverging lens
 - Converging lens
 - Parallel lens
 - Biconcave lens
- Which phenomenon explains why a pencil appears bent when immersed in water?
 - Reflection
 - Refraction
 - Dispersion
 - Diffraction
- The focal length of a concave lens with power $-3D$ is:
 - -0.3 m
 - -3.3 m
 - -0.5 m
 - -0.33 m
- An image formed by a convex mirror is always:
 - Real and inverted
 - Virtual, erect, and diminished
 - Enlarged and real
 - Reduced and real
- In a plane mirror, the distance between the object and image is:
 - Double the object distance
 - Equal to object distance
 - Half the object distance
 - Variable

8. The principal axis of a spherical mirror passes through:
- a) Only the pole
 - b) Only the focus
 - c) Both the pole and center of curvature
 - d) Only the center of curvature
9. The unit of power of a lens is:
- a) Meter
 - b) Dioptre
 - c) Joule
 - d) Candela
10. The focal length of a convex mirror with radius of curvature 40 cm is:
- a) 40 cm
 - b) 20 cm
 - c) -40 cm
 - d) -20 cm

Answers for Set 3: 1-b, 2-c, 3-b, 4-b, 5-d, 6-b, 7-b, 8-c, 9-b, 10-b