

Q1. Air bubble in water behaves like a:

- a) Converging lens
- b) Plano-convex lens
- c) Diverging lens
- d) None

Q2. The radius of curvature of a spherical mirror is 16cm. What is the focal length?

- a) 16 cm
- b) 8 cm
- c) 24 cm
- d) 32 cm

Q3. The length that is used to rectify hypermetropia

- a) Concave
- b) Convex
- c) Cylindrical
- d) None

Q4. When light passes through the liquids, the change of frequency of scattered light is related to:

- a) Raman effect
- b) Snell's law
- c) Total internal reflection
- d) None of these

Q5. The relation between the speed of wave (v), wavelength (λ), and frequency (n) is-

- a) $n = v\lambda$
- b) $\lambda = vn$
- c) $\lambda = n/v$
- d) $\lambda = v/n$

Q6. If the refracted rays from a convex lens are travelling parallel to the principal axis, then image distance is:

- a) Equal to object distance
- b) Infinity
- c) Equal to radius of curvature of the lens
- d) Equal to focal length of the lens

Q7. If the magnification of the mirror is greater than 1, then the mirror is:

- a) Concave mirror
- b) Convex mirror
- c) Plane mirror
- d) None

Q8. The lens which always give a diminished and virtual image is:

- a) Convex lens
- b) Concave lens
- c) Plano-convex lens
- d) Convex mirror

Q9. If area of cross section of a wire increases, while temperature and length are constant, then resistance of the wire is:

- a) decreases
- b) depends on material
- c) increases
- d) none

Q10. When white light is incident on a glass prism, the least deviated colour is:

- a) Violet
- b) Orange
- c) Red
- d) Yellow

