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1. Suppose you are standing 1 m in front of a plane mirror. What should be the minimum vertical size of the mirror so that you can see your full image in it?

    a.   0.50 m
    b.   2 m
    c.   half of your height.
    d.   twice your height.

Answer (c).

2. A spherical air bubble is embedded in a piece of glass. For a ray of light passing through the bubble, it behaves like a :

    a.   converging lens
    b.   diverging lens
    c.   plano-converging lens
    d.   plano-diverging lens

Answer (b).

3. Which one among the following is used to make periscope?

    a.   Concave lens
    b.   Concave mirror
    c.   Plane mirror
    d.   None of the above

Answer (c).

4. What is the power of the lens, if the far point of a short-sighted eye is 200 cm?

    a.   -0.5 D
    b.   2 D
    c.   1 D
    d.   -1.5 D

Answer (a).

5. The image formed by a convex mirror of a real object is larger than the object

    a.   when u < 2f
    b.   when u > 2f
    c.   for all values of u
    d.   for no value of u

(u – object distance, f – focal length)
Answer (d).

6. The mirror used for the head light of a car is

    a.   spherical concave
    b.   plane
    c.   cylindrical
    d.   parabolic concave

Answer (d).

7. The ratio of the focal length of the objective to the focal length of the eyepiece is greater than one for

    a.   a microscope
    b.   a telescope
    c.   both microscope and telescope
    d.   neither microscope nor telescope

Answer (b).

8. The radius of curvature of a plane mirror

a. is zero
b. is infinity
c. can be anywhere between zero and infinity
d. None of the above

9. The human eye is like a camera and hence it contains a system of lens. The eye lens forms

a. a straight or upright, real image of the object on the retina
b. an inverted, virtual image of the object on the retina
c. an inverted, real image of the object on the retina
d. a straight or upright, real image of the object on the iris

10. An object is placed at the focus of a concave mirror. The image will be

a. real, inverted, same size at the focus
b. real, upright, same size at the focus
c. virtual, inverted, highly enlarged at infinity
d. real, inverted, highly enlarged at infinity