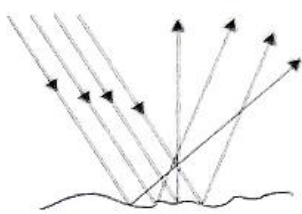


1. Spherical mirrors are widely used as rear view mirrors in the automobiles. Why the word 'AMBULANCE' is differently painted in front of the hospital vans?
 - (a) It is accurately readable in front of the rear view mirror of other vehicles.
 - (b) It reads erratic in front of the rear view mirror of other vehicles.
 - (c) Only for word art.
 - (d) None of these
2. _____ is not a luminous object.
 - (a) Moon
 - (b) Sun
 - (c) Candle
 - (d) Bulb
3. The image of the teeth seen by a dentist while testing teeth is
 - (a) erect and real
 - (b) erect and virtual
 - (c) inverted and virtual
 - (d) inverted and real.
4. Which of the following shows reflection?
 - (a) Wood
 - (b) Plastic
 - (c) Water
 - (d) None of these
5. The given figure shows



 - (a) Diffused reflection
 - (b) refraction
 - (c) regular reflection
 - (d) none of these
6. Light always travels in a _____ path.
 - (a) straight
 - (b) curved
 - (c) sometimes straight, sometimes curved
 - (d) none of these
7. The path of light can be changed
 - (a) by placing a mirror in its path
 - (b) by placing any shiny surface in its path
 - (c) both (a) and (b)
 - (d) neither (a) nor (b)
8. The image formed in a plane mirror is always
 - (a) erect and laterally inverted
 - (b) upside down
 - (c) straight and blurred
 - (d) larger than the original size house
9. In a _____ mirror, the reflecting surface is curved outwards.
 - (a) plane
 - (b) concave
 - (c) convex
 - (d) all of these
10. The focal length of a concave mirror is 2.5 cm. Find its radius of curvature.
 - (a) 2.5cm
 - (b) 5cm
 - (c) 10cm
 - (d) None of these
11. A concave lens forms
 - (a) inverted, virtual and smaller image
 - (b) erect, real and smaller image
 - (c) erect, virtual and smaller image
 - (d) erect, virtual and magnified image.
12. If Newton's colour disc is rotated rapidly, then
 - (a) seven colours of light look like a single colour black
 - (b) seven colours of light look like a single colour violet
 - (c) seven colours of light look like a single colour white
 - (d) none of these

13. Which of the following can be used to form a real image?
(a) Concave mirror only. (b) Plane mirror only.
(c) Convex mirror only. (d) Both concave and convex mirrors.
14. You are provided with a concave mirror, a convex mirror, a concave lens and a convex lens. To obtain an enlarged image of an object you can use either
(a) concave mirror or convex mirror. (b) concave mirror or convex lens.
(c) concave mirror or concave lens. (d) concave lens or convex lens.
15. A rainbow can be seen in the sky
(a) when the sun is in front of you. (b) when the sun is behind you.
(c) when the sun is overhead. (d) only at the time of sun rise.
16. You are provided with a convex mirror, a concave mirror, a convex lens and a concave lens. You can get an inverted image from
(a) both concave lens and convex lens. (b) both concave mirror and convex mirror.
(c) both concave mirror and convex lens. (d) both convex mirror and concave lens.
17. An image formed by a lens is erect. Such an image could be formed by a
(a) convex lens provided the image is smaller than object.
(b) concave lens provided the image is smaller than object.
(c) concave lens provided the image is larger than object.
(d) concave lens provided the image is of the same size.

Assertion-Reason Codes:

- (a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
(b) If both Assertion and Reason are true and Reason is not the correct explanation of Assertion.
(c) If Assertion is true but Reason is false.
(d) If both Assertion and Reason are false.
18. Assertion: The mirrors used in search lights are concave spherical.
Reason: In a concave spherical mirror the image formed is always virtual.
19. Assertion: Light travels faster in air than in glass.
Reason: Glass is optical denser than air.
20. Assertion: Mirror formula can be applied to a plane mirror.
Reason: A plane mirror is a spherical mirror of infinite focal length.
21. Assertion: If an object is placed at a distance of 5cm from a plane mirror, the distance between the image and the mirror is 5cm.
Reason: The image formed by a plane mirror is as far behind the mirror as the object is in front of it.
22. Assertion: Virtual image are always erect.
Reason: Virtual images are formed by diverging lenses only.
23. Assertion: In the phenomenon of dispersion, the least deviated colour is red.
Reason: Rainbow formation is due to the dispersion of light.