

C1. State whether the following statements are True (T) or False (F).

1. To keep your eyes healthy you should eat a balanced diet with vitamin A. []
2. The reflection seen in unused stainless steel plate is diffused reflection. []
3. The light rays from an object enter the eye through cornea. []
4. Hypermetropia can be corrected by using a convex lens. []
5. The Braille is a tactual aid. []

C2. Fill in the blanks.

1. _____ is a line perpendicular to the surface of the mirror at the point of incidence.
2. The image formed by a _____ mirror is always erect.
3. On _____ the angle between the two reflecting surfaces, the number of images _____.
4. A _____ can split white light or it can recombine seven colours to form _____ light.
5. _____ is the visible white part of the eye filled with watery fluid.
6. The image of an object is retained on the retina of eye for about _____ of a second.
7. The _____ point for a normal eye is infinity.

C3. Match the items in Column A with one or more items in Column B.

Column A

1. Optic nerve
2. VIBGYOR
3. Cataract
4. Auditory aids
5. Divergent beam of light
6. Angle of incidence
7. Blind spot

Column B

- (i) Tape recorders, compact discs (CDs)
- (ii) The angle between the incident ray and the normal
- (iii) Carries visual messages to the brain
- (iv) Does not have rods and cones
- (v) Produced when white light splits
- (vi) Eye lens become cloudy or opaque
- (vii) Spread or appear to spread from a point
- (viii) Has rods and cones

C4. Multiple Choice Questions (MCQs): Choose the correct answer for each of the following.

1. On increasing the angle between the two reflecting surfaces, the number of images
(a) decreases. (b) increases. (c) does not change. (d) none of these.
2. According to the 2nd law of reflection, the angle of incidence is equal to the
(a) 0° . (b) angle of refraction. (c) angle of reflection. (d) 180° .
3. The number of images formed when the angle between two mirrors is 24° is
(a) 18. (b) 20. (c) 16. (d) 14.
4. When the ciliary muscles relax, the thickness of the lens
(a) increases. (b) reduces. (c) remains the same.
(d) sometimes reduces and sometimes increases.
5. The image of an object is retained on the retina for about
(a) one-sixteenth of a second. (b) one-fifteenth of a second.
(c) one-seventeenth of a second. (d) one-tenth of a second.
6. A man is suffering from myopia. Which of the following statements holds true for him?
(a) He can correct this defect by using convex lenses.
(b) He is not able to see the nearby objects clearly.
(c) This defect can only be treated surgically or through laser.
(d) He wears spectacles with concave lenses of appropriate focal length.