

## The Human Eye and the Colourful World - Class X - Paper Set 3

- When we look at an object through a prism, the light beam that comes out of the prism is called the:
  - Incident ray
  - Refracted ray
  - Emergent ray
  - Deviated ray
- The change in focal length of the eye lens is controlled by:
  - Iris
  - Retina
  - Ciliary muscles
  - Cornea
- The phenomenon that causes a rainbow to form is:
  - Reflection
  - Refraction and dispersion
  - Diffraction
  - Polarization
- A person with hypermetropia requires which type of corrective lens?
  - Concave
  - Convex
  - Plane
  - Bifocal
- The minimum distance at which a person with normal vision can see clearly is called the:
  - Near point
  - Far point
  - Least focal distance
  - Distinct vision
- Why does the sky appear dark to an astronaut in space?
  - Lack of atmosphere for scattering
  - The moon blocks the sun's light
  - Light absorption by space
  - Refraction in space
- Which of these causes the red appearance of the sun at sunrise and sunset?
  - Refraction
  - Reflection
  - Dispersion
  - Scattering

8. To correct presbyopia, a person may require:
- a) Convex lens only
  - b) Concave lens only
  - c) Bifocal lens
  - d) None of these
9. The color of light that bends the least when passing through a prism is:
- a) Blue
  - b) Red
  - c) Green
  - d) Violet
10. Which cells in the retina are responsible for color vision?
- a) Rods
  - b) Cones
  - c) Neurons
  - d) Ciliary cells

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