

CLASS X- PHYSICS
LIGHT-HUMAN EYE
ASSIGNMENT-5

Multiple Choice Question - 5.1

1. The focal length of eye lens controlled by-
(A) Iris (B) Cornea (C) Ciliary muscles (D) Optic nerve
2. A white lights falls on a glass prism, the least deviated colour is -
(A) Violet (B) Orange (C) Red (D) Yellow
3. Blue colour of sky is due to -
(A) dispersion of light (B) scattering of light (C) refraction of light (D) reflection of light
4. Rainbow is formed due to -
(A) reflection and dispersion of light through a water droplet
(B) Total internal reflection, refraction and dispersion of light through a water droplet
(C) only dispersion of light
(D) only refraction of light
5. Power of accommodation (max. variation in power of eye lens) of a normal eye is about -
(A) 1D (B) 2D (C) 3D (D) 4D
6. Dispersion of light by a prism is due to the change in -
(A) frequency of light (B) speed of light (C) scattering (D) none of these
7. Least distance of distinct vision of a long-sighted man is 40 cm. He wish to reduce it to 25 cm by using a lens, the focal length of the lens is -
(A) $+\frac{200}{3}$ cm (B) $-\frac{200}{3}$ cm (C) + 200 cm (D) – 200 cm
8. Which of the following colour has the least wave length ?
(A) red (B) orange (C) violet (D) Blue
9. Convex lens of suitable focal length can correct -
(A) short sightedness (B) long sightedness (C) presbyopia (D) astigmatism
10. The focal length of human eye lens is -
(A) 2.5 cm (C) 25 cm (C) 25m (D) ∞

SUBJECTIVE QUESTION - 5.2

1. What are the causes of near sightedness ?
2. How is the amount of light entering our eye is controlled
3. Which colour bends the maximum from its path when a beam of white light is incident on it ?