

32. Which of the following receptors in the retina of an eye identify the intensity of light ?
 A) cones B) optic nerve
 C) rods D) all

33. Which of the following lens are needed to correct one's myopia ?
 A) bi-convex B) bi-concave
 C) bi-focal D) plano-convex

34. A healthy person can see objects at all distances more than healthy clearly.
 A) 25 cm B) 30 cm
 C) 35 cm D) 20 cm

35. Which of the following is the reason for when the ice breaks into pieces the pieces shine brightly ?
 A) dispersion
 B) refraction
 C) total internal reflection
 D) scattering of light

36. Which of the following molecules are the reason for blue sky ?
 A) H_2O B) H_2
 C) N_2, O_2 D) CO_2

37. Which of the following lens is used to correct the defect of hypermetropia ?
 A) plano convex B) bi-focal
 C) bi-concave D) bi-convex

38. The angle of vision for a healthy human being is about
 A) 60° B) 30°
 C) 45° D) 90°

39. Which of the following reports in the retina identify the colour ?
 A) cones B) optic-nerve
 C) rods D) iris

40. The blue colour of sky is due to

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- A) reflection B) refraction
 C) dispersion D) scattering

41. The red colour of sun during sunset and sunrise is due to

- A) reflection B) refraction
 C) dispersion D) scattering

42. The rainbow formed in the sky is due to

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- A) reflection B) refraction
 C) dispersion D) scattering

43. 1) Refraction () P) Rainbow ()
 2) Scattering () Q) Blue colour of the sky
 3) Dispersion () R) Twinkling of stars

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- A) 1-Q, 2-R, 3-P B) 1-R, 2-P, 3-Q
 C) 1-P, 2-R, 3-Q D) 1-R, 2-Q, 3-P

44. Which colour light travels faster in vacuum ?

- A) Blue
 B) Yellow
 C) Red
 D) All will travel with same speed

45. The angle of minimum deviation for an equilateral triangle prism is found to be 30° . Its refractive index is

- A) $\frac{1}{\sqrt{2}}$ B) $\sqrt{2}$
 C) $\sqrt{2} - 1$ D) $\sqrt{2} + 1$

46. Light is incident at an angle 45° from air ($n = 1$) on a prism ($n = \sqrt{2}$). The angle of refraction is

- A) 30° B) 45°
 C) 60° D) 90°

47. The maximum and minimum focal length of the eye lens are

- A) 25 cm / 22.7 cm
 B) 2.5 cm / 2.27 cm
 C) 25 mm / 22.7 mm
 D) Both B & C