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

LIVEWORKSHEETS