



CLASS 10

HUMAN EYE AND THE COLOURFUL WORLD

Very Short Answers

1. What is the phenomenon responsible for the blue color of sky?
2. What is the near and far point of a normal eye?
3. Name the component of eye that is responsible for the adjustment of eye lens?
4. To an astronaut why does the sky appear dark instead of blue?
5. How can you remove the defect of vision 'Presbyopia'?
6. Name three primary color? (Ans. RED, BLUE, GREEN)
7. Write the nature of image formed by our eye?
8. What do you understand by Dispersion of light?
9. What is Tyndall Effect?
10. A student has difficulty reading the black board while sitting in the last row. What is the defect of vision and how it can be corrected?

Short Answers

1. Name the phenomenon responsible for formation of rainbow? Explain it with the help of diagram?
2. What is power of accommodation? How ciliary muscles help in accommodation?
3. Why the sun appear red while sunset and sunrise. Explain?
4. Why the stars twinkle but not earth?
5. Explain the function of
(i) Iris (ii) Pupil (iii) Retina
6. Explain the refraction of light through glass prism with the help of diagram. Show angle of emergence and angle of deviation?

Long Answer Type Questions

1. What is myopia? State the two causes of myopia? With the help of labelled ray diagram show
 - a) Eye defect
 - b) Correction of myopia
2. What is hypermetropia? State the two causes? With the help of labelled ray diagram show
 - a) Eye defect
 - b) Correction of hypermetropia
3. Draw the labelled diagram of human eye and explain the image formation?