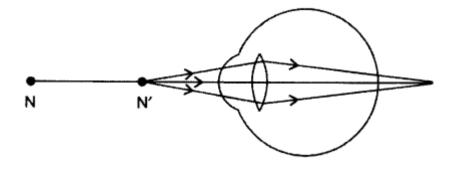
L-11 THE HUMAN EYE AND THE COLOURFUL WORLD

CLASS-X SCIENCE

MODULE-2/4

WORKSHEET

- 1. What is short sight? How can it be corrected?
- 2. A person having a myopic eye used the concave lens of focal length 50cm. What is the power of the lens?
- 3. Define "least distance of distinct vision".
- 4. How does the eye adjust itself to deal with light of varying intensity? When is a person said to have developed cataract in his eye? How is the vision of a person having cataract restored?
- 5. What are the common defects of vision that can be corrected by the use of suitable eyeglasses or spectacles?
- 6. Explain presbyopia
- 7. A person uses convex lens spectacles. What vision defect does he have? Draw a diagram
 - (i) to show the defective eye
 - (ii) to show the correction with the lens.
- 8. Explain the angle of prism.
- 9. A 14-year old student is not able to see clearly the questions written on the blackboard placed at a distance of 5 m from him.
 - (a) Name the defect of vision he is suffering from.
 - (b) With the help of labelled ray diagrams show how this defect can be corrected.
 - (c) Name the type of lens used to correct this defect.
- 10.Study the diagram given below and answer the questions that follow it:
- a) Which defect of vision is represented in this case? Give reason for your answer.
 - (b) What could be the two causes of this defect?
 - (c) With the help of a diagram show how this defect can be corrected by the use of a suitable lens.



- 11.Draw a ray diagram to show the refraction of light through a glass prism. Mark on it (a) the incident ray. (b) the emergent ray and (c) the angle of deviation.
- 12. What is myopia (near-sightedness)? Draw a ray diagram to show how it can be corrected using a lens.
- 13. What is hypermetropia (far-sighted-ness)? Draw a ray diagram to show how this defect can be corrected using a lens.