

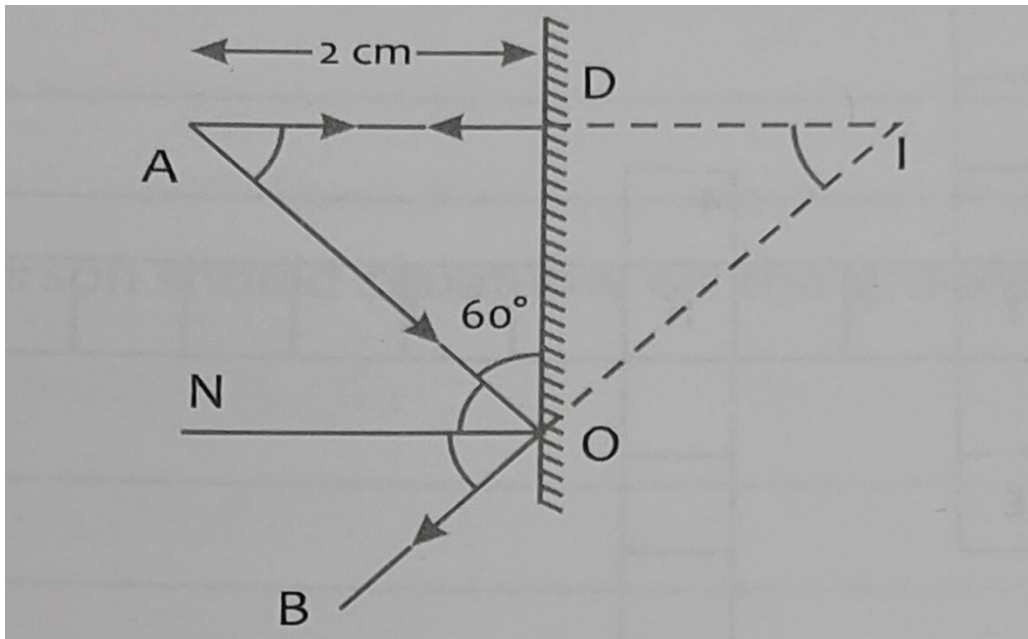
DWARKA INTERNATIONAL SCHOOL, DWARKA, SEC-12
SUBJECT ENRICHMENT ACTIVITY, 2023-24 (II TERM)
CLASS- VIII, SUBJECT-SCIENCE
WORKSHEET-1, CHAPTER:13- LIGHT

Date of submission: 20-11-2023

(Paste the completed worksheet in the Science Notebook).

A. Picture Based Question:

1. The given illustration shows reflection of light by a plane mirror. Observe the image carefully, and answer the related questions.



- (a) Assuming that the distance between the object and the mirror is 2 cm, what would be the distance between the mirror and the image?
- (b) If the incident ray makes an angle of 60 degrees with the mirror, what would be the angle of reflection?
- (c) What is the angle between the normal at the point of incidence and the mirror?

B. Give one word for the following:

1. The region of retina that is devoid of rod and cone cells
2. The nerve that carries impulses from the eye to the brain
3. The transparent layer that covers the eye in the front
4. The innermost layer of the human eye
5. The outermost, white layer of the eye

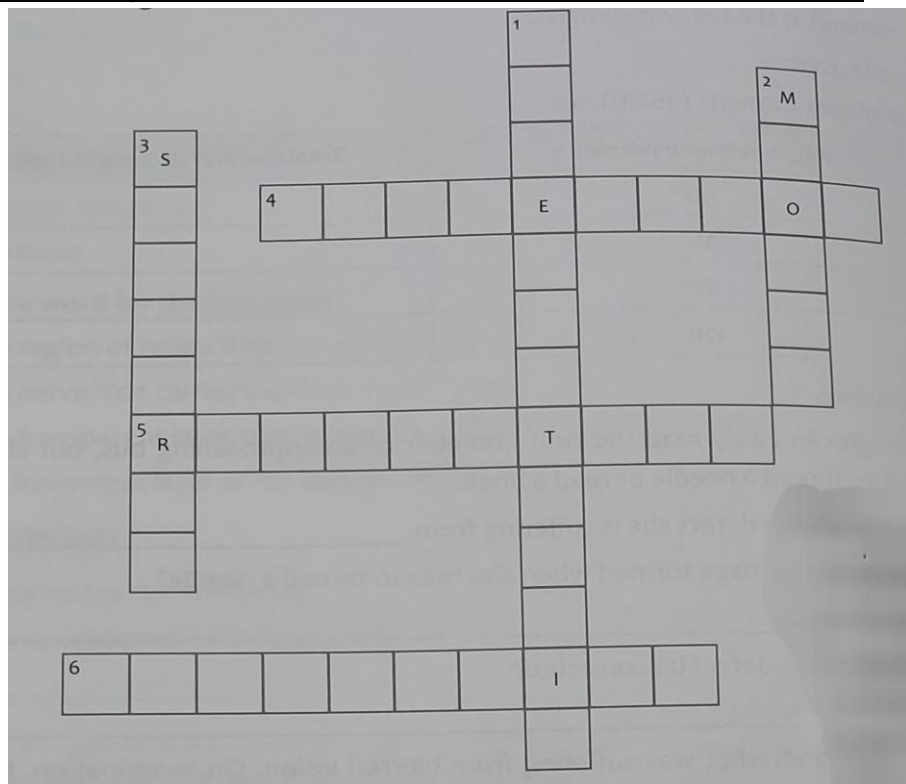
C. Analytical questions:

1. Eyes of nocturnal birds have a large cornea and pupil. Why?
2. The human eye can view both distant objects as well as objects placed as close as 25 cm clearly. Give reasons.

D.HOTS Questions:

1. Raveena's grandfather was suffering from blurred vision. On examination, the doctor found that the lens had become cloudy.
(a) Identify and name the eye defect. (b) How can this defect be corrected?
2. Ankit can read his science lessons from the textbook easily but finds it difficult to read what is written on the chalkboard.
(a) Identify and name the eye defect. (b) How can this defect be corrected?

E. Read the clues given below and complete the crossword:



Down

1. Farsightedness
2. Nearsightedness
3. A band of seven colours formed due to dispersion of light

Across

4. Splitting of white sunlight into its constituent colours
5. Phenomenon of bouncing back of light rays on striking a polished surface
6. Then bending of light rays on moving from one medium to another

