

AHLCON PUBLIC SCHOOL, MAYUR VIHAR PHASE – I, DELHI – 110091
ASSIGNMENT
ACADEMIC SESSION: 2019-20

CLASS – VIII
SUBJECT – PHYSICS
TOPIC: Light

Q1 Fill in the blanks:

- a) Beautiful patterns are formed in a Kaleidoscope due to _____
- b) Visually challenged persons can read and write using _____
- c) Image formed in a plane mirror undergoes _____ inversion.
- d) _____ reflection takes place from the surface of a cardboard.
- e) The splitting of white light into its constituent colours is called _____
- f) The part of the eye which gives colour to the eye is _____

Q2 What kind of lens is there in our eyes? Where does it form the image of an object?

Q3 How many times is a ray of light reflected by two plane mirrors placed parallel and facing each other?

Q4 The angle between the incident ray and the reflected ray is 60° . What is the value of angle of incidence?

Q5 The distance between the object and its image formed by a plane mirror appears to be 24cm. What is the distance between the mirror and the object?

Q6 Which part of the eye gets affected if someone is suffering from cataract? How is it treated?

Q7 Explain the process which enables us to perceive motion in a cartoon film?

Q8 A ray of light incident on a mirror A at an angle of 25° falls on mirror B after reflection. Mirror A and B are placed perpendicular to each other. Draw a ray diagram for the given situation and find angle of reflection from mirror B.

Q9 Write the functions of the following parts of the eye:

- a) Cornea
- b) Retina
- c) Optic nerve

Q10 Eyes of the nocturnal birds have large cornea and a large pupil. How does this structure help them?