

REVISION WORKSHEET -2 LIGHT- REFLECTIONS AND REFRACTION

1. Draw ray diagram to show the formation of a three times magnified (i) real image, (ii) virtual image of an object kept in front of a converging lens. Mark the position of object, F, 2F, O and position of image clearly in the diagram.

B. An object of size 5 cm is kept at a distance of 25 cm from the optical centre of converging lens of focal length 10 cm. Calculate the distance of the image from the lens and size of the image

2. (a) Draw a ray diagram showing the path of a ray of light when it enters with oblique incidence (i) from air into water (ii) from water into air

(b) Under what condition in an arrangement of two plane mirrors, incident ray and reflected ray will always be parallel to each other, whatever may be the angle of incident. Show the same with the help of diagram.

3. (a) What is refraction of light? Give an expression to relate the absolute refractive index of a medium with speed of light in vacuum.

(b) The refractive index of water and glass with respect to air are $\frac{4}{3}$ and $\frac{3}{2}$ respectively. If the speed of light in glass is $2 \times 10^8 \text{ ms}^{-1}$, then find the speed of light in (i) air, (ii) water.

4. (a) It is desired to obtain an erect image of an object, using a concave mirror of focal length 20cm.

(i) At what should be the range of distance of the object from the mirror?

(ii) Will the image be bigger or smaller than the object?

(iii) Draw a ray diagram to show the image formation in this case.

(b) One half of a convex lens of focal length 20 cm covered with a black paper.

(i) Will the lens produce a complete image of the object?

(ii) Show the formation of image of an object placed at 2F1 of such covered lens with the help of a ray diagram.

(iii) How will the intensity of image formed by half-covered lens compare with non-covered lens?

5. How can you distinguish between a plane mirror, a convex mirror and a concave mirror, just by looking at the image formed by them.

(b) The lens prescribed by the doctor has a power equal to +2.0 D. What does it mean?

(c) What would be the approximate focal length of a spherical lens preferred to use while reading small letters found in a dictionary?

6. (a) A convex lens of focal length 20 cm can produce a magnified virtual as well as real image. Is this a correct statement? If yes, where shall be the object be placed in each case for obtaining these images?

(b) Light enters from air to glass having refractive index 1.50. What is the speed of light in glass? [The speed of light in vacuum is $3 \times 10^8 \text{ ms}^{-1}$]

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