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## TEST - PAPER (CBSE/NCERT)

# LIGHT: REFLECTION & REFRACTION

## SESSION -2024-25

## CLASS - 10th



Add: Block -B, Near Glory Villa, 60 feet Road (Nearest land mark Scindia Statue), Shatabdipuram, Gwalior

Time : 1 hr :: Light - Reflection and Refraction :: mm :

Q. 1 Answer in one word / sentence :-

(i) Write mirror formula.

(ii) Write lens formula.

(iii) What will be the power of lens whose focal length is 1 meter ?

(iv) SI unit of power of lens is .....

(v) The focal length of plane mirror is .....

Q. 2. Define the principal focus of a concave mirror. and the radius of a curvature of a spherical mirror is 20 m. What is its focal length ?

Q. 3. Define 1 diopre of power of a lens. Find the power of a concave lens of focal length 2 m.

Q. 4. Define the radius of curvature of a spherical mirror. and Define the focal length of a spherical mirror.

Q.5. Define the power of lens and Define the magnification.

Q.6. What is bi convex lens called? and what happen when a light ray enters denser medium to rarer medium?

Q.7. (i) Incident ray makes an angle of incidence of 30° on a plane mirror, then what will be the value of the angle of reflection?

(ii) The refracting index of diamond is 2.42. What is the meaning of this statement?

Q.8. What is converging lens?

Q.9. A convex mirror used for rear-view on an automobile has radius of curvature of 3.00 m. If a bus is located at 5.00 m from this mirror, find the position nature and size of the image.

Q.10. An object 4.0 cm in size, is placed at 25.0 cm in front of a concave mirror of focal length 15.0 cm. At what distance from the mirror should a screen be placed in order to obtain a sharp image? Find the nature and the size of the image.

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