



SACRED HEART SCHOOL

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ASSIGNMENT (2020– 2021)

Class - X

Subject – PHYSICS

Assignment questions based upon online class

1. Draw the ray diagram for the following condition for convex lens:
 - (i) When object placed at $2F_1$.
 - (ii) When object placed between focus and optical centre.
2. In order to obtain a diminished, virtual and erect image of an object, which lens is required? also draw ray diagram for it.
3. Under what condition, a convex lens will act as a magnifying glass? Also draw the corresponding ray diagram.
4. An object located 32 cm in front of a lens forms an image on a screen 8 cm behind the lens:
 - (i) Find the focal length of the lens
 - (ii) Determine the magnification
 - (iii) Is the lens converging or diverging?