



# SACRED HEART SCHOOL

Jhumri Telaiya, Koderma

ASSIGNMENT (2020– 2021)

Class - X

Subject – PHYSICS

## Assignment questions based upon online class

1. A student wants to project the image of a candle flame on a screen 48 cm in front of mirror by keeping the flame at a distance of 12 cm from its pole.
  - i. Suggest the type of mirror he should use.
  - ii. Find the linear magnification of the image produced.
  - iii. How far is the image from its object?
  - iv. Draw a ray diagram to show the image formation in this case.
2. An object 1 cm high produces a real image -1.5 cm when placed at a distance of 15 cm from a concave mirror. Calculate the position of the image and the magnification.