LOYOLA SCHOOL, BHUBANESWAR

Second Class Evaluation – November 2025

Class: IX	**Subject: Physics**	**F.M.= 20**	**Time:40mins.**

1. The magnification of an image is −2. [3]
   (a) Name the mirror used.
   (b) Is the image magnified or diminished?
   (c) Where is the object placed?
2. Draw a ray diagram to show the formation of image in a concave mirror, when the object is beyond the center of curvature. [3]
3. When an object is placed at 40 cm. from a concave mirror, the size of the image is one fourth of that the object. [3]
   (a) Calculate the distance of the image from the mirror.
   (b) Find the focal length.
4. Write two differences between regular and irregular reflection. [2]
5. Write three differences between real image and virtual image. [3]
6. [3]
   (a) Write two laws of reflection.
   (b) How many images are formed when an object is placed between two mirror parallel to each other?
7. A mirror produces a virtual and diminished image. Draw a ray diagram to show the formation of image. [3]

********** **ALL THE BEST**********