



S.N. Public High School
Indrapuri, Tajpur Road, Ludhiana
Academic Session: 2024-25
Assignment II

Class: - X

Subject:- Science

Note: Writing should be Neat and Clean.

A. Answer the following 3 marks questions in 3-4 lines.

1. Write a word equation and then balanced equation for the reaction taking place when
 - a) Dilute hydrochloric acid reacts with magnesium ribbon.
 - b) Dilute sulphuric acid reacts with magnesium ribbon.
2. What is neutralisation reaction? Give two examples.
3. Why does distilled water not conduct electricity whereas rain water does?
4. Define principle focus for a concave mirror.
5. Find the power of concave lens of focal length 2m.
6. Why do we prefer a convex mirror as a rear-view mirror in vehicles?
7. Light enters from air to glass, having a refractive index 1.50. What is the speed of light in the glass? The speed of light in vacuum is $3 \times 10^8 \text{ ms}^{-1}$.
8. Name the type of mirror used in the following situations.
 - (a) Headlights of a car.
 - (b) Side/rear-view mirror of a vehicle.
 - (c) Solar furnace.

Support your answer with a reason.