

GREENLAWNS HIGH SCHOOL
FINAL EXAMINATION 2023-24

SUBJECT: PHYSICS PRACTICAL

STD. 9

TIME: 1 HR. , DATE: 05-02-2024

MARKS: 15

NOTE:

You are not allowed to write or perform the experiment in the first ten minutes. This time is to be spent in reading the question paper and checking the apparatus. The time at the head of this paper is to be spent in performing the experiment. You have to write the aim, observation, calculation (if any) and the conclusion. Do not copy the apparatus and procedure. Be neat in your work. The observation table has to be written in ink. Do not write with pencil and overwrite it with pen. Experimental work has to be done in pencil.

AIM: To study the laws of reflection.

APPARATUS: A drawing board, a plane mirror, a sheet of paper, pins etc.

PROCEDURE:

- 1) Fix a sheet of paper on the drawing board with pins.
- 2) Draw a line XY in the middle of the paper.
- 3) Take a point O on line MM' and draw a normal to line XY at point O using a protractor. Label it as ON.
- 4) Draw an incident ray PO such that angle of incidence PON is 35° .
- 5) Now place a mirror vertically on MM' with its silvered surface coinciding with MM'.
- 6) Fix two pins on ray PO and label them as A & B.
- 7) Fix two pins C & D in the direction of reflected ray in such a way that the images of pins A, B and pins C & D are in a straight line.
- 8) Circle all the pin marks, then remove all the pins and the mirror.
- 9) Join the pin marks of C & D and extend it to meet mirror at point O.
- 10) Measure angle DON, which is the angle of reflection.
- 11) Repeat your experiment two more times by taking angle of incidence 45° and 60° respectively.

Contd.....

12) Write your observation as follows:

Copy the table given below in your answer booklet and then fill it.

SR. NO.	ANGLE OF INCIDENCE	ANGLE OF REFLECTION
1.		
2.		
3.		

13) Write your conclusion.

Journal - 5 Marks