

GREENLAWNS HIGH SCHOOL

Std. 9 Physics Practical Examination 2021 Total Marks 10

Note – You have seen the video. Answer the questions given below on the basis of information given in the video.

Experiment 1

Aim – To verify the laws of reflection of light by using a plain mirror.

- 1) Complete the following table. (2)

Sr. No.	$\angle i$	$\angle r$
a	54°	_____
b	68°	_____
c	_____	35°
d	_____	20°

- 2) What conclusion you will draw from the experiment which you have observed?
Give 2 points. (2)
- 3) Calculate the angle of incidence and the angle of reflection if the angle between the incident ray and the mirror is 20° . Show your calculations. (2)
- 4) State 2 precautions to be taken while conducting the experiment. (2)
- 5) State the condition under which the incident ray coincides with the reflected ray. (1)
- 6) Define the process observed by you in the experiment. (1)

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Experiment 2

Aim – To verify Archimedes' principle.

- 1) If a body weighs 80 gf in air and 76 gf in water and the weight of water displaced by it is 4 gf, then calculate (4)
 - a) Loss in weight
 - b) Buoyant Force
 - c) Compare the weight of water displaced by the body with Buoyant Force
 - d) Write your conclusion

- 2) If a body weighs 55 gf in air and 50 gf in a liquid. The volume of liquid displaced by it is 5 ml, then calculate (4)
 - a) the weight of liquid displaced using volume
 - b) the upward force exerted by liquid
 - c) Compare the answers obtained by you in a) and b)
 - d) Write your conclusion

- 3) State the principle which is verified in the experiment. (2)