

**GREENLAWNS HIGH SCHOOL  
TERMINAL EXAMINATION 2021**

**SUBJECT: PHYSICS PRACTICALS**

**STD: IX**

**TIME: 30 MINUTES**

**MARKS: 15**

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**Note:**

- All answers to this paper must be written on composition sheet.
- Write your *Name, Roll no., Class-Div. and Page number* in the right hand side top corner of every side of your composition sheet.
- After you finish your paper, click a clear photo of each page of your answer sheet, convert all the images into a **ONE PDF** and rename it as follows: *Roll No., Name, Class-Div. and Physics Final Exam*. And upload it on teams under given assignment.

**Experiment – 1**

**(10)**

Aim : To verify laws of reflection of light using plane mirror.

Q.1 What is reflection of light?

Q.2 How is angle of incidence and angle of reflection related?

Q.3 If a ray of light makes an angle of  $40^\circ$  with the plane mirror, then what will be the angle of incidence?

Q.4 If a ray of light is normally incident on a plane mirror. What will be the angle of incidence?

Q.5 In this experiment to verify the laws of reflection of light using plane mirror, pins  $P_1$ ,  $P_2$ ,  $P_3$  and  $P_4$  are used, if pins  $P_1$  and  $P_2$  are placed in front of the mirror, where will see the images of these pins?

Q.6 In this experiment to verify the laws of reflection of light using plane mirror, pins  $P_1$ ,  $P_2$ ,  $P_3$  and  $P_4$  are used, if pins  $P_1$  and  $P_2$  are placed in front of the mirror, How are pins  $P_3$  and  $P_4$  placed?

Q.7 What do you mean by angle of reflection?

Q.8 How can we say that the second law of reflection of light is verified by this experiment?

Q.9 What is the nature of image formed by plane mirror? Give reason for your answer

## **Experiment – 2**

**(5)**

Aim : To plot the magnetic field lines of a bar magnet.

Q.1 What do you mean by magnetic field of a magnet?

Q.2 Why magnetic field lines are crowded near poles of the magnet?

Q.3 How magnetic field lines are directed outside the magnet?

Q.4 What do you mean by neutral points?

Q.5 State the position of neutral points when magnet is placed with its axis in the magnetic meridian and with its North Pole pointing towards the geographic north.

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