

# DELHI PUBLIC SCHOOL, JAMMU

DATE: 27<sup>th</sup> April, 2021 ASSIGNMENT – 1

CLASS: X

SUBJECT: PHYSICS

TOPIC: ELECTRICITY (From Charge upto Resistance)

Based on your understanding of the E-Lectures-cum PPT's, video links and other e-resources shared with you, answer the following questions

- Q1. What is the function of Rheostat in Ohm's law experiment? (2)
- Q2. Draw symbol for three cell battery and give its potential. (2)
- Q3. How will an Ammeter and Voltmeter be connected in any electrical circuit? Explain. (2)
- Q4. What are the factors affecting resistance of a conductor? Explain each of them. (2)
- Q5. Define resistivity and give its SI unit. (2)
- Q6. What is the nature of graph obtained in ohm's law? Also give the significance of slope in V-I graph.
- Q7. A piece of wire of resistance 10 ohm is drawn out so that its length is increased to twice its original length. Calculate the resistance of the wire in the new situation. (2)
- Q8. Define the following; (i) 1 coulomb (ii) 1 volt (iii) 1 ohm (iv) 1 ampere. (2)

## You-Tube Links:

1. <https://youtu.be/t6pqrkWSWL8>
2. [https://youtu.be/E\\_DsqQARbFg](https://youtu.be/E_DsqQARbFg)

## Note:

1. Due date of submission: 1<sup>st</sup> May 2021
2. Send your answer here:
  - (a) [Satishpawarom@gmail.com](mailto:Satishpawarom@gmail.com) for classes X F, X G and X H
  - (b) [Dpsanil77@gmail.com](mailto:Dpsanil77@gmail.com) for classes X A, A B and X C
  - (c) [manikavermawork@gmail.com](mailto:manikavermawork@gmail.com) for class X E
  - (d) [Mandy.7104@gmail.com](mailto:Mandy.7104@gmail.com) for class X D
  - (e) [Prashant.dpsjmu@gmail.com](mailto:Prashant.dpsjmu@gmail.com) for class X I
  - (f) [Jyotijamwal50@gmail.com](mailto:Jyotijamwal50@gmail.com) for class X J
3. Students must mention their name, class/section and date in their assignments.
4. Your Assignment will be marked for internal/ Term assessments.  
Therefore, it is necessary for you to submit it on time.