VIDYA BHAVAN, BALIKA VIDYAPEETH

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SUBJECT:- PHYSICS CLASS:- XTH DATE:07/04/XXI

SUBJECT TEACHER:- MR. NEEL NIRANJAN

CHAPTER 1. (ELECTRICITY) (BASED ON NCERT PATTERN)

Current::- The rate of flow of charge is known as current.

I = Q/t, Where I = Current

Q = Net charge flowing.

t = time

- Unit: The unit of current is Ampere.

Q = Coulomb(C)

I = Ampere(A)

t = Second(s) 1 A = 1C/1s

➢**Potential Difference:**

The potential difference between two separate points is defined as the work done to move a unit positive charge from one point to another.

V = W/Q

- Unit:

The unit of potential difference is Volt

1 Volt = 1 Joule/ 1 Coulomb

Ohm's Law:

Current ∝ potential difference

V ∝ I

V = I R where, R = Resistance

- Unit R = Ω(Ohm)

1Ω = 1V / 1 A