CURRENT ELECTRICITY

FORMULAE

1. Electric current $I = \frac{q}{t} = \frac{ne}{t}$

Where-I-Strength of current; q - charge; t time.

2. Resistance $R = \frac{V}{I}$. Conductance $G = \frac{1}{R}$

Where - V - potential difference, i - current

3. Resistance $R = \frac{\rho l}{A} = \frac{\rho l}{\pi r^2}$

Where - R - Resistance of the wire; ρ-Resistivity or specific resistance, l-length of the wire, A - area of cross section of the wire

Variation of resistance with temperature:

$$R_{\gamma} = R_{\alpha} \left[1 + \alpha \left(t \right) \right]$$

$$\Rightarrow \alpha = \frac{R_{c} - R_{c}}{R_{c}(t)} / {^{\circ}C}$$

$$\alpha = \frac{R_1 - R_1}{R_1(t_1 - t_1)} / {}^{\circ}C$$

Where $-R_i$ - resistance at temperature $t^{\alpha}C$, R_0 - resistance at temperature $0^{\alpha}C$, α - temperature coefficient of resistance.

5. Variation of resistivity with temperature:

$$\rho_{t} = \rho_{0} \left[1 + \alpha \left(t \right) \right] \Rightarrow \alpha = \frac{\rho_{t} - \rho_{0}}{\rho_{0} \left(t \right)} / {}^{\circ}C$$

Where $-\rho_r$ - resistivity at $t^{\circ}C$, ρ_b - resistivity at $0^{\circ}C$, α - temperature coefficient of resistivity.

Conductivity = Reciprocal of resistivity.

i.e.
$$\sigma = \frac{1}{\rho}$$

Where $-\sigma$ - conductivity, ρ -resistivity.

 Terminal voltage : Case - 1 : When battery is delivering current

$$V = E - ir$$
 or $i = \frac{E}{R + r}$

Where - V - terminal P.D., E - emf of the cell, r-internal resistance of the cell, R - external resistance.

Case - 2: When battery is charging V = E + ir

- 8. Kirchhoff's laws:
 - i) Kirchhoff's first law : \(\sum_i = 0\) at any junction.
 - ii) Kirchhoff's second law ; \(\sum_i i R = 0\) in a closed circuit.
- 9. The balancing condition for wheat stone bridge is $\frac{P}{Q} = \frac{R}{S}$, Where P, Q, R and S are the resistances in the bridge.
- 10. Meter Bridge :

$$i) \frac{x}{R} = \frac{l_1}{l_2} \Longrightarrow \frac{x}{R} = \frac{l_1}{(100 - l_1)}$$

Where - x - unknown resistance of given wire, R - resistance in the resistance box, I₁ - balancing length from left end of the bridge to Jockey.

ii)
$$\rho = \frac{xA}{l} = x\frac{\pi r^2}{l}$$

Where $-\rho$ - resistivity of the wire, xresistance of wire, A - Area of cross section of the wire, l - length of the wire.

- Potentio Meter:
 emf of the cell in the secondary circuit
 E = I \rho I
 - i) Comparision of emfs of two cells: $\frac{E_1}{E_2} = \frac{l_1}{l_2}$

Where $-E_1$ - emf of first cell, E_2 - emf of second cell, I_1 and I_2 - the balancing lengths of individual cells respectively.

ii) For determination of internal resistance of a cell;

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Notes Class 12th Physics Chapter Current Electricity: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. Notes Class 12th Physics Chapter Current Electricity: Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Notes Class 12th Physics Chapter Current Electricity: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Notes Class 12th Physics Chapter Current Electricity: Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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