

## NEET- Physics PYQ Cheat Sheets by Tamanna Chaudhary

## Current Electricity

2010

Kirchhoff's Laws:

- A. Junction rule: Conservation of Charge
- B. Loop rule: Conservation of Energy.



Req = 8 sz

Bulb (220 y, 100 Watt) Voltage drops by 2.5%, then power loss will & by 5%

Reststance per unit length, x

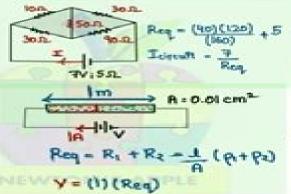
$$2. \frac{8}{3} = \frac{(x L_1)(x L_2)}{(x L_1 + x L_2)}$$

2013 10 Identical cells in series Heats a whre of length, Land radius 't' In 't' minutes





A whre as stretched by a factor of '10'. The resistance increases by a factor of 100. Specific Resistance remains same



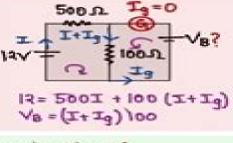
Calculating internal restriance of a cell: r=R(drds)

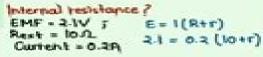
4: Balanced because of E ls: Balanced because of Vext

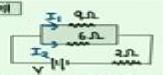
distance byw cities: 150 km Fall of potential | km : 8 V Average Reststance | km : 0.5 sz Power loss ? (Ploss - 1 km) (150 km)  $\left(\frac{V^2}{R}\right)_{1km}$  (150 km)

In a meter bridge,

2014







Pacross 9.12: 36 watt Potential difference across 3223

Battery of EMF, E and Internal recistance, r E=0.5 (R+9) E = 2[R+2]

# **Electric Current Study Guide**

**Harris Benson** 

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