

Delhi Public School, Jammu
Session 2021-2022
Revision Sheet
Chapter : Current Electricity

Class X

Sub: Physics

1. What is the difference between open and closed circuits? Draw diagrams for both.
2. What are the disadvantages of heating effect of current?
3. What is potential difference? Give its unit with definition.
4. Determine the direction of conventional current?
5. What is electrical power? Write its unit.
6. You take two resistors of resistance $2R$ and $3R$ and connect them in parallel in an electric circuit. Calculate the ratio of the electrical power consumed by $2R$ and $3R$?
7. A small bulb has a resistance of 2Ω when cold. It takes up a current of 0.4 A from a source of 4V and then starts glowing. Calculate
 - (i) the resistance of the bulb when it is glowing and
 - (ii) Elaborate on the reason for the difference in resistance?
8. Define resistance and resistivity and also give the relation between them. Explain the dependence of resistance on temperature.
9. A bulb is rated at $330\text{V}-110\text{W}$. What do you think is its resistance? Three such bulbs burn for 5hrs at a stretch. What is the energy consumed? Calculate the cost in rupees if the rate is 70 paise per unit?
10. Calculate the resistance of 2 km long copper wire of radius 2 mm . (Resistivity of copper = 1.72×10^{-8})

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