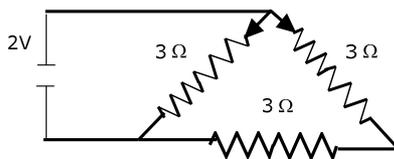

CBSE TEST PAPER-01
CLASS - XII PHYSICS (Unit – Current Electricity)

1. If the temperature of a good conductor decreases, how does the relaxation time of electrons in the conductor change? [1]
2. If potential difference V applied across a conductor is increased to $2V$, how will the drift velocity of the electron change? [1]
3. Two electric bulbs A and B are marked $220V, 40\text{ w}$ and $220V, 60\text{ W}$ respectively. Which one has a higher resistance? [2]
4. A Carbon resistor has three strips of red colour and a gold strip. What is the value of resistor? What is tolerance? [2]
5. Determine the voltage drop across the resistor R_1 in the circuit given below with $E= 60V, R_1=18\ \Omega, R_2=10\ \Omega, R_3=5\ \Omega$ and $R_4= 10\ \Omega$? [3]
6. What happens to the resistance of the wire when its length is increased to twice its original length? [3]
7. Mark the direction of current in the circuit as per kirchoff's first rule. What is the value of main current in the shown network? [3]



8. (a) Why do we prefer potentiometer to measure the emf of cell than a voltmeter? [1]
 - (b) With suitable circuit diagram, show how emfs of a cell can be compared using a potentiometer? [2]
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