

Q9	A coil wire is 25 m long. The wire has a diameter of 0.40 mm and carries a current of 0.50 A, What are
	the electric field and the power dissipated in the wire (the resistivity of the wire $1.5 \times 10^{-6} \Omega$.m)
Q10	A beam of charged particles of different speeds is going through an area that has an electric field E and a
	magnetic field B. The electric force is towards one direction, and the magnetic force is towards the
	opposite direction. Only particles with speed v are having a balance between the two forces. If the
	electric field is increased to 2E, then the particles having Zero net force, What is the speed of particles?
Q11	If 75 resistors, each of 50 Ω , are connected in parallel, and the total potential deference is 34V,
	Find the equivlant resistance and current and potential difference across each resistor?
Q12	Consider the circuit shown in the figure below. Find the current I ₃ passing
	through the battery 1.5 V?
	10 Ω I ₃
	I_1
	I_2 I_2 I_5 I_5 I_5
	\geqslant 20 Ω \downarrow
	I_1 I_3
The end	