

# Physics (Term 2) Formulae List

## Electric Current

① Current,  

$$I = \frac{dq}{dt}$$

$$= nAve$$

$$n = \frac{N}{V} \leftarrow \text{no of } e^- \text{ per volume}$$

$$v = \text{drift velocity}$$

② Current Density,  

$$J = \frac{I}{A}$$

$$= nve$$

③ Resistivity,  

$$\rho = \frac{R}{\frac{L}{A}} \quad (R = \frac{\rho L}{A})$$

④ Conductivity,  

$$\sigma = \frac{1}{\rho}$$

$$= \frac{A}{\rho L}$$

$$= \frac{1}{\rho} \leftarrow (E = \text{mean time interval between collisions})$$

$$= \frac{nq^2 E}{m}$$

④ Power,  

$$P = IV$$

$$= \frac{V^2}{R}$$

$$= I^2 R$$

## Direct Current Circuits

① e.m.f.,  

$$E = I(R+r) \quad r = \text{internal resistance}$$

② Kirchhoff's First Law  

$$\sum I = 0 \quad (\text{conservation of charge})$$

③ Kirchhoff's Second Law  

$$\sum IR = \sum E \quad (\text{conservation of energy})$$

④, Unknown Potential Difference.  

$$V = \left( \frac{R}{R+r} \right) V_0 \quad (V_0 = E = e \cdot m \cdot f)$$

$$V \propto R$$

$$V_0 \propto R+r$$

④  

$$\frac{V_1}{V_0} = \frac{l_1}{l_0} \quad V \propto l$$

## Magnetic Fields

① Magnetic Force,  

$$F = qvB \sin \theta \quad (\text{moving charge})$$

$$= BIL \sin \theta \quad (\text{conductor})$$

② Magnetic Field / Magnetic Flux Density,  

$$B = \frac{\mu_0 I}{2\pi r} \rightarrow \text{straight wire}$$

$$B = \frac{\mu_0 N I}{2r} \rightarrow \text{circular coil}$$

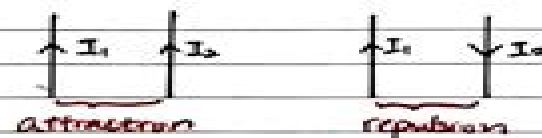
$$B = \mu_0 n I \rightarrow \text{solenoid}$$

$$n = \frac{N}{L} \leftarrow \text{no of turns}$$

$$\mu_0 = 4\pi \times 10^{-7}$$

③ Force per unit length for 2 parallel conductors,  

$$\frac{F}{L} = \frac{\mu_0 I_1 I_2}{2\pi r}$$



\* Magnetic Force = Centrifugal force  

$$qvB = \frac{mv^2}{r}$$

$$= m\omega^2 r$$

④ Hall voltage,  

$$V_H = \frac{BI}{nte} \quad t = \text{thickness}$$

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