

# Physics (Term 2) Formulae List

## Electric Current

### ① Current,

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

$$= nve \quad n = \frac{N}{V} \left( \text{no of } e^- \text{ per volume} \right)$$

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

### ② Current Density,

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

$$= nve$$

### ③ Resistivity,

$$\rho = \frac{RA}{l}$$

$$(R = \rho \frac{l}{A})$$

### ④ Conductivity,

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

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

$$= \frac{1}{\frac{ne^2}{\sigma t}} \quad (t = \text{mean time interval}$$

$$= \frac{ne^2}{\sigma t} \quad (\text{between collisions})$$

### ⑤ Power,

$$P = I V$$

$$= \cancel{V}$$

$$= I^2 R$$

## Direct Current Circuits

### ① e.m.f.

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

\* Magnetic force = Centrifugal force

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

$$= mv^2$$

### ② Kirchhoff's First Law

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

### ③ Kirchhoff's Second Law

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

## ⑥ Unknown Potential Difference

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

$$V \propto R$$

$$V_0 \propto R+r$$

⑦

$$\frac{V_0}{V} = \frac{l_1}{l_2} \quad V \propto l$$

## 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,

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

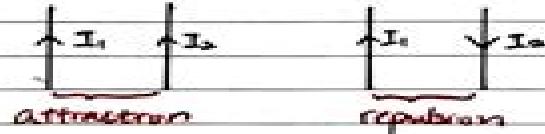
$$B = \frac{\mu_0 N I}{2\pi r} \quad \rightarrow \text{circular coil}$$

$$B = \mu_0 NI \quad \rightarrow \text{solenoid}$$

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

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

### ③ Force per unit length for 2 parallel conductors,



### ④ Hall voltage,

$$V_H = \frac{Bz}{ne} \quad t = \text{thickness}$$

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