

BASIC ELECTRICAL ENGINEERING

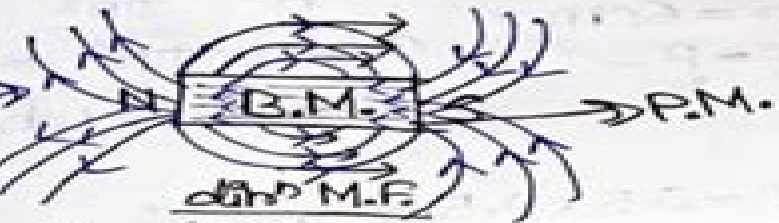
Magnetism

Magnetic Field

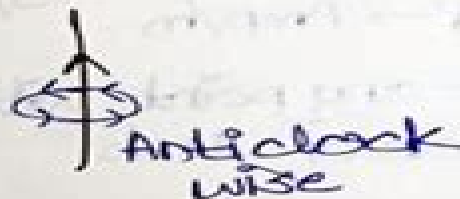
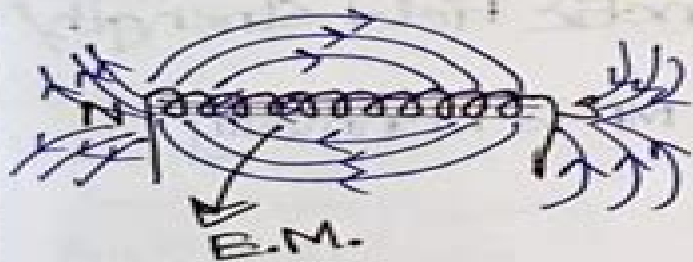
Magnetic Field Line

created by

1. Bar Magnet
2. current carrying wire



- i) inside: $S \rightarrow N$
- ii) outside: $N \rightarrow S$
- iii) Don't intersect each other.



$$I \propto V$$
$$I = \frac{V}{R}$$

MMF/Magneto motive force

$$M = N * I = \text{turn} \times \text{Amp} = \text{Amp-turn (AT)}$$

- | | | |
|--|---|--|
| ① $N = 700$
$I = 2$
$\therefore M = 1400 \text{ AT}$ | ② $N = 350$
$M = 525 \text{ AT}$
$\therefore I = 1.5 \text{ Amp}$ | ③ $M = 6396$
$I = 6.5 \text{ Amp}$
$\therefore N = 984 \text{ turn}$ |
|--|---|--|

Magnetic Flux ϕ (Weber/Wb)

Magnetic Flux density is defined by flux per area
'B' Weber/ m^2 = Tesla

$$B = \frac{\phi}{A} \rightarrow \text{weber}/\text{m}^2$$

Analogue to electric current density.

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L Reisser



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