Subject: Date:

1) Distinguish between magnetic flux & magnetic flux density
Magnetic flux is a measure of the number of field lines passing through area A
- is a scalar

Magnetic flux density - is a measure of the number of field lines passing through unit area ($A = 1 m^2$);
ie. concentration of field lines
- is a vector
Φ depends on area B is independent of area

2) Distinguish between magnetic flux & magnetic flux linkage
Magnetic flux is a measure of the number of field lines passing through one turn in the coil
Magnetic flux linkage is a measure of the total number of field lines passing through all turns in the coil.

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