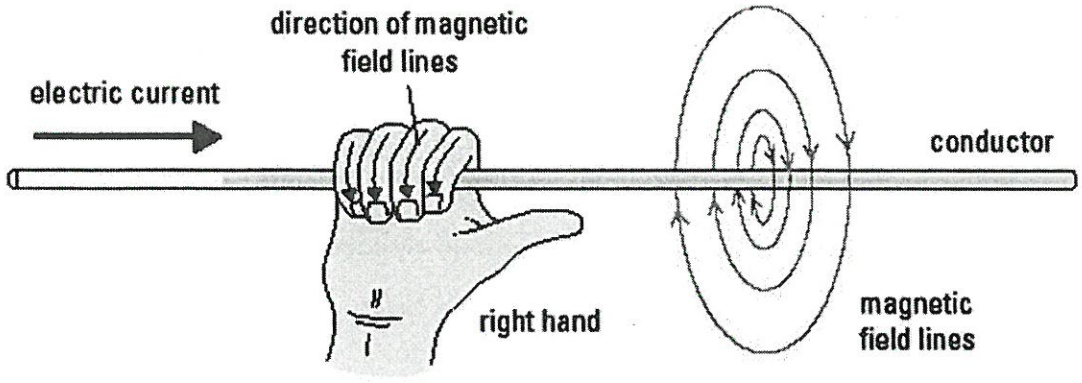
Answer Key.

Straight Conductors

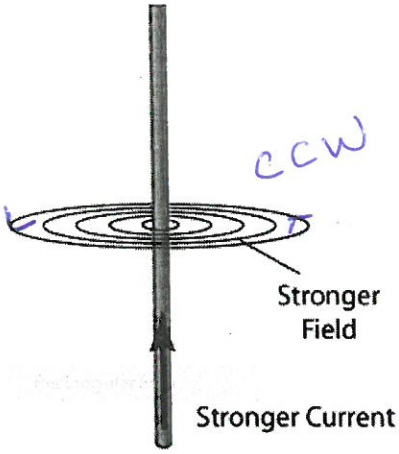


Indicate:

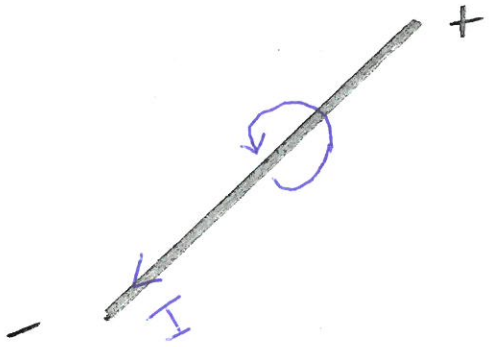
i) Current flow i.e. direction

ii) Magnetic field

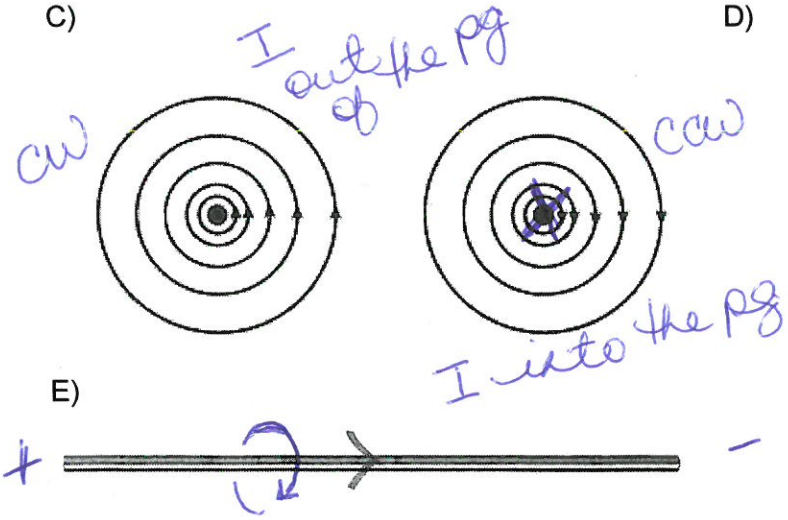
A)



B)

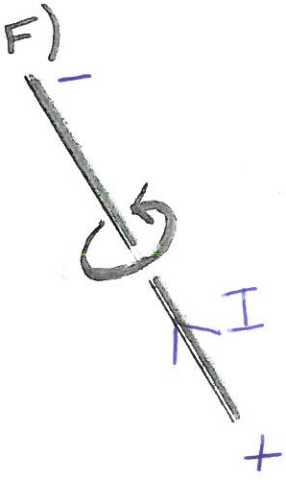


C)



D)

F)



E)

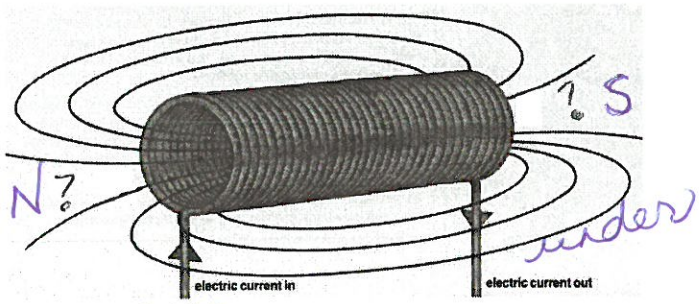
Solenoids

Indicate:

i) Current flow i.e. direction

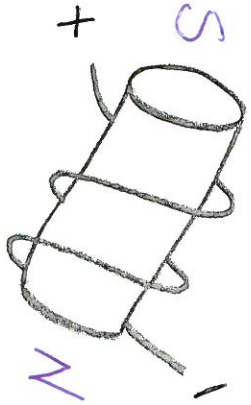
ii) Polarity i.e. N and S

A)

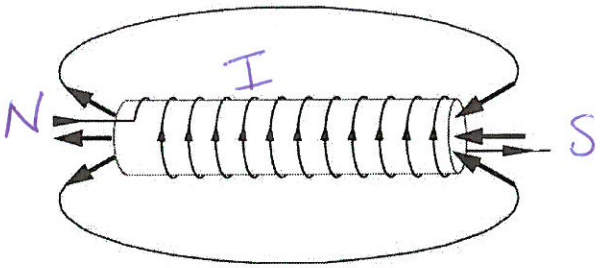


over under

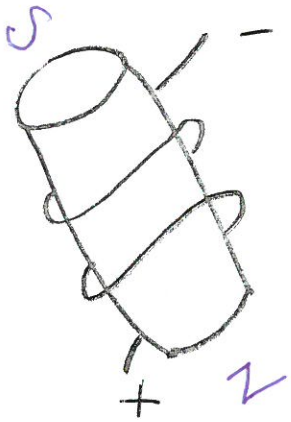
B)



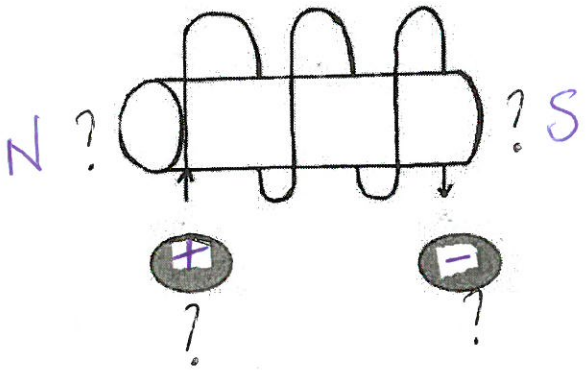
C)



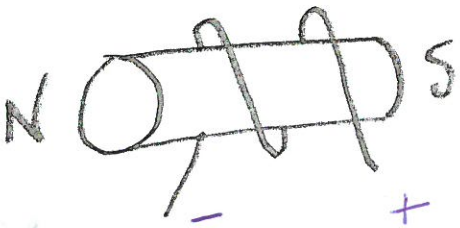
D)



E)



F)

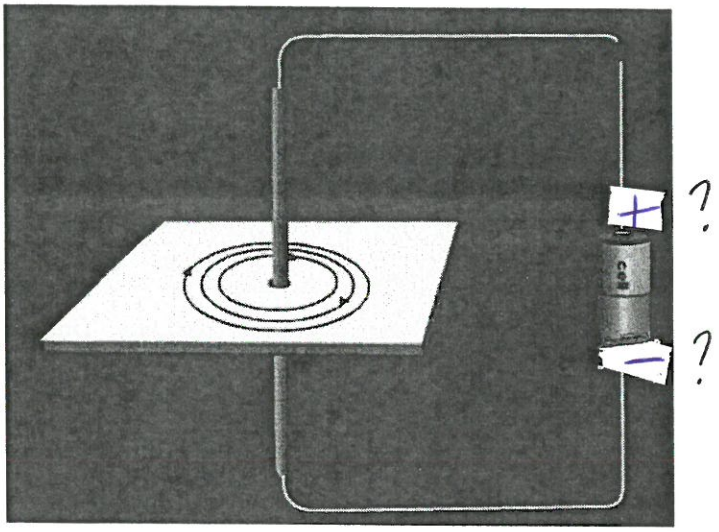


Why is D or a U-shaped or horse shoe magnet stronger than a bar shaped magnet?

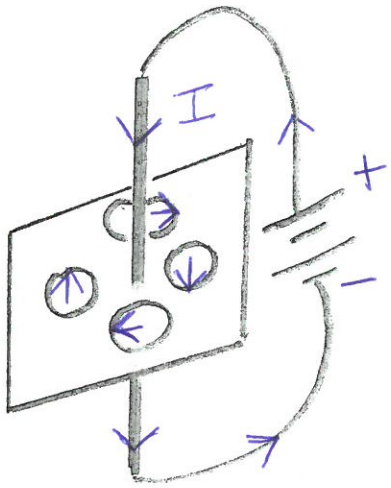
i) the 2 poles are close tog

ii) the magnets strength is concentrated at the poles

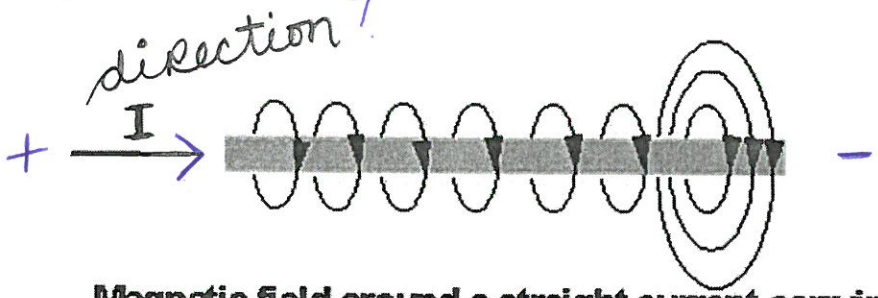
F)



G)



H)



Magnetic field around a straight current-carrying conductor is a series of concentric circles around the conductor.

We live under Hydro QC high tension wires. Discuss. Justify.

- Hi tension wires = straight conductors
- ∴ under HTW you are in a circular magnetic field
- scientists are divided btw effects on the brain, leukemia etc

Anjum