

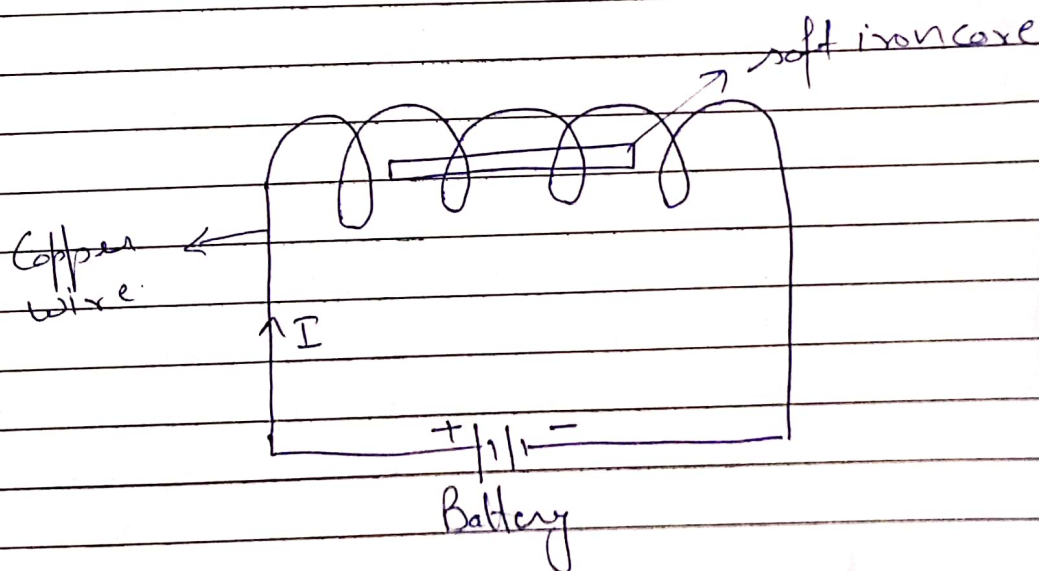
Write in your (Physics) fair Notebook.

Date 4/5/20

* Electromagnet :-

Electromagnet is a substance which start behaving as a magnet when electric current passed through it but as the current is switched off, magnetism is lost. It is also known as temporary magnet.

It consist of long coil of copper wire bounded on soft iron core, then ends of copper wire are connected to battery.



Factor affected the strength of electromagnet :-

1. No. of turns in a coil should be increase.
2. Current flow in a coil should be increase.

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3. length of gap between poles should be more.

* The core of an electromagnet must be soft iron because soft iron loses all of its magnetism when current in the coil switched off.

* Steel is not used for making electromagnet as it does not lose its magnetism even if current is switched off.

* Uses of electromagnets

(i) They are used

in electric belts, electric motors etc.

2) They are used to lift heavy iron pieces.

3) They are used to separate magnetic substance from non-magnetic substance in a heap of metal scrap.