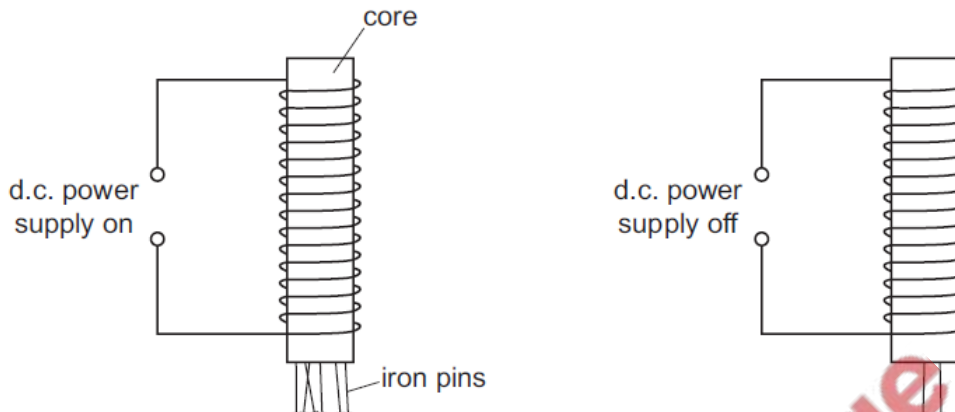


1. June/2022/Paper_11/No.27

A student counts how many iron pins an electromagnet picks up when its power supply is switched on. Then, she counts how many pins are picked up when the power supply is switched off.



She repeats the experiment using cores made of different materials. The results are shown.

Which core is made out of soft iron?

	pins picked up with the power supply on	pins picked up with the power supply off
A	0	0
B	2	7
C	8	5
D	12	0

2. June/2022/Paper_12/No.28

Iron filings are picked up by an electromagnet.

The current in the electromagnet is switched off and the filings fall on a plastic bench.

A plastic comb is rubbed with a woollen cloth and held just above the iron filings.

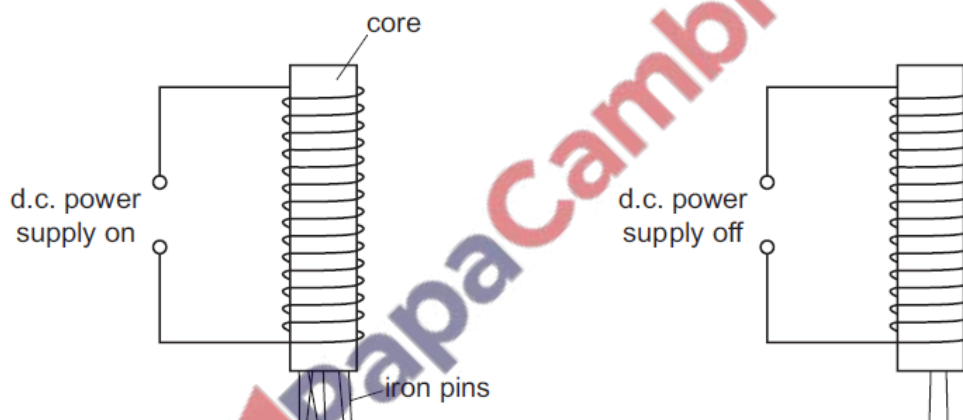
Some of the filings jump and stick to the comb.

Which statement correctly explains the last observation?

- A The comb has been electrically charged by rubbing with the cloth.
- B The comb has been magnetised by rubbing with the cloth.
- C The filings have been electrically charged by the electromagnet.
- D The filings have been magnetised by the electromagnet.

3. June/2022/Paper_21/No.28

A student counts how many iron pins an electromagnet picks up when its power supply is switched on. Then, she counts how many pins are picked up when the power supply is switched off.



She repeats the experiment using cores made of different materials. The results are shown.

Which core is made out of soft iron?

	pins picked up with the power supply on	pins picked up with the power supply off
A	0	0
B	2	7
C	8	5
D	12	0