

 $Head \, to \, \underline{www.savemyexams.com} \, for \, more \, awe some \, resources \,$

Electromagnetic Effects

Question Paper

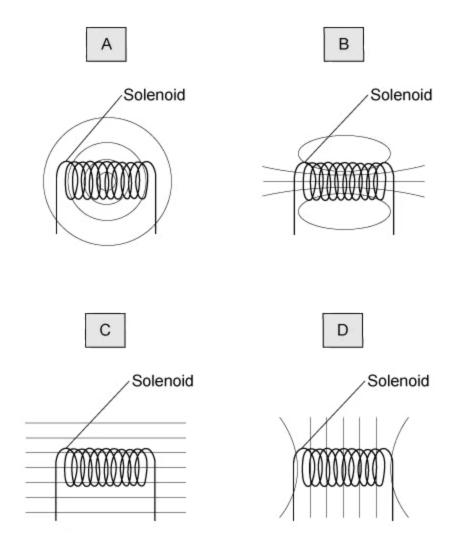
Course	CIEIGCSEPhysics
Section	4. Electricity & Magnetism
Topic	Electromagnetic Effects
Difficulty	Easy

Time Allowed 10

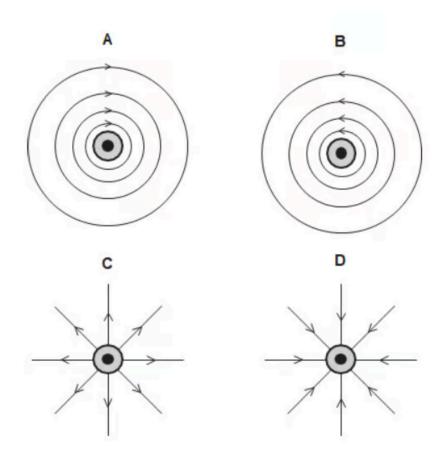
Score /5

Percentage /100

Which diagram shows the correct magnetic field pattern around a current-carrying solenoid?



Which diagram correctly shows the magnetic field lines around a current-carrying wire if the current is directed out of the page?



 $Head to \underline{www.savemyexams.com} for more awe some resources$

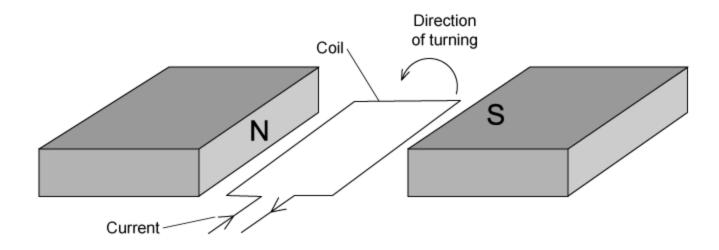
Question 3

Extended tier only

Which device uses a split ring commutator?

- A. d.c. motor
- **B.** transformer
- C. relay
- D. a.c. generator

A simple d.c. electric motor is shown in the diagram.



Which of the following changes would make the coil turn more quickly?

- **A.** Reducing the strength of the magnetic field.
- **B.** Reversing the direction of the current and swapping the magnetic poles.
- **C.** Swapping the magnetic poles.
- **D.** Increasing the current in the coil

The number of turns in the primary coil and secondary coil of a transformer is N_{p} and N_{s} respectively.

Which of the following statements represents a step-up transformer?

$$A. N_s = N_p$$

$$\mathsf{B.}\,N_{_{S}}>N_{_{p}}$$

$$c.N_s < N_p$$

$$\mathrm{D.}\,N_p>N_{_S}$$