20. Magnetic Fields

20.1 Concept of a magnetic field

Paper 4

Question Paper

1 **(a)** State what is meant by a magnetic field.

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..... [2]

2 A solenoid is connected in series with a battery and a switch, as illustrated in Fig. 8.1.

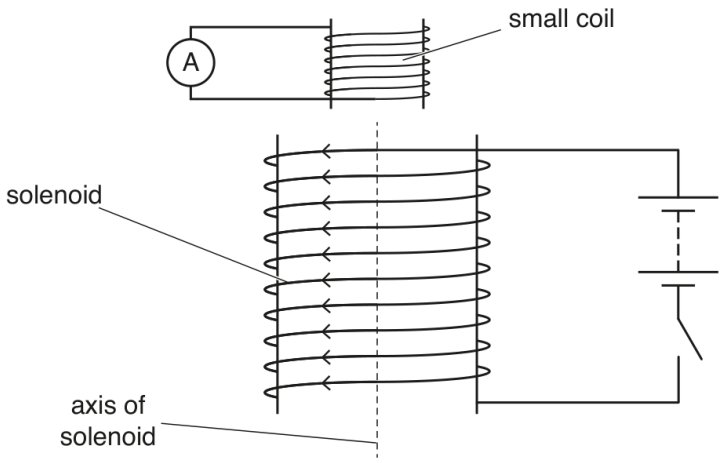


Fig. 8.1

A small coil, connected to a sensitive ammeter, is situated near one end of the solenoid.

As the current in the solenoid is switched on, there is a changing magnetic field inside the solenoid.

(a) **(i)** State what is meant by a *magnetic field*.

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..... [1]