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Warm-Up Questions



- It's made up of concentric circles around the wire (with the wire in the centre).
E.g. cranes use them to pick up iron and steel in scrap yards.

Exam Questions

- 1.1 Put the magnets on a piece of paper and place many compasses in different places between the magnets to show the magnetic field at those points (11 mark). The compass needles will line up with the magnetic field lines (11 mark).
You could also use iron filings to show the pattern.
1.2 The field lines point straight across from the north pole towards the south pole (11 mark).
1.3 Attraction (11 mark), as opposite poles are facing each other and opposite poles attract (11 mark).



(11 mark for correct field shape, 1 mark for direction)

E.g. iron (11 mark)

- 1.4 The paperclips will fall (11 mark), because an electromagnet only has a magnetic field if a current is flowing (11 mark).

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Warm-Up Questions

- 1) When a current-carrying wire is in a magnetic field experiences a force.
First finger — magnetic field
Second finger — current
Thumb — force (rotation)
2) Swapping the polarity of the dc supply (reversing the current), or swapping the magnetic poles over (reversing the field).

Exam Questions

- 1.1 (11 mark)

- 1.2 The direction of the force would be reversed too (11 mark).
1.3 The force would be lower (11 mark).
1.4 There would be no force on the wire (11 mark).
2.1 E.g. direction of rotation axis of rotation.



(11 mark for any indication that the current was anticlockwise)

- 2.2 Force = magnetic flux density $\times$ current $\times$ length of conductor inside field ($F = BIL$)
 $F = 0.2 \times 15 \times 0.1$ (11 mark)
 $= 0.3$ N (11 mark)
2.3 By swapping the direction of the current (current every half turn using a split ring commutator) (11 mark) so the forces on the loop always act in a way that keeps the loop rotating (11 mark).

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Warm-Up Questions

- 1) Any two from: e.g. increase the speed of movement / rate of field lines cut / increase the strength of the magnetic field.
2) Direct current.
3) More turns on the secondary coil.

Exam Questions

- 1.1 Because electrical current is generated (11 mark).
1.2 Any two from: e.g. move the magnet out of the coil / move the coil away from the magnet / insert the south pole of the magnet into the same end of the coil / insert the north pole of the magnet into the other end of the coil (11 mark).
1.3 Any two from: e.g. push the magnet into the coil more quickly / use a stronger magnet (11 mark).
1.4 Zero / no reading (11 mark).
Advantage is needed to generate a current.
2.1 A potential difference will not be induced in the secondary coil when using the dc supply (11 mark) because the magnetic field generated in the iron core is not changing (11 mark). A pd is only induced if the magnetic field experiences a change in magnetic field (11 mark).
2.2 power = potential difference $\times$ current / $P = IV$
 $= 12 \times 2.5$ (11 mark)
 $= 30$ W (11 mark)
2.3 Assuming that the transformer is 100% efficient, the output power is 30 W (11 mark).
power = potential difference $\times$ current / $P = IV$
So, $3 = V \times I$ (11 mark)
 $= 30 \div 10$ (11 mark)
 $= 3$ A (11 mark)
2.4 $V_s = V_p \times \frac{n_s}{n_p}$
So, $n_s = (V_s \times n_p) \div V_p$ (11 mark)
 $n_s = (24 \times 120) \div 15$ (11 mark)
 $= 192$ turns (11 mark)
3) When the ac current flows through the coil of wire on the magnetic field of the permanent magnet, the coil of wire experiences a force (11 mark). The force causes the coil, and so the arm, to move (11 mark). The alternating current is constantly changing direction and so the direction of the force on the coil is constantly changing and the arm vibrates back and forth (11 mark). The vibrations cause pressure variations in the air that cause sound waves (11 mark).

Topic 8 — Space Physics

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Warm-Up Questions

- 1) Clouds of dust and gas called nebulae.
2) A red super giant.
3) E.g. planets and dwarf planets.
4) gravity.
5) red shift.
6) E.g. dark matter and dark energy.

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