

Page 162 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)

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

Page 166

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 (direction)
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 anti-clockwise)

- 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).

Page 172

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 / $P = VI$
 $= 12 \times 2.5$ (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 / $P = VI$
So, $3 = V \times I$ (11 mark)
 $= 30 \div 6$ (11 mark)
 $= 5$ 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)
 $= 8$ turns (11 mark)
3) When the ac current flows through the coil of wire in 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

Page 178

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.

Gcse Cgp Physics Answers

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Table of Contents Gcse Cgp Physics Answers

1. Understanding the eBook Gcse Cgp Physics Answers
 - The Rise of Digital Reading Gcse Cgp Physics Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Gcse Cgp Physics Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gcse Cgp Physics Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gcse Cgp Physics Answers
 - Personalized Recommendations
 - Gcse Cgp Physics Answers User Reviews and Ratings
 - Gcse Cgp Physics Answers and Bestseller Lists

5. Accessing Gcse Cgp Physics Answers Free and Paid eBooks
 - Gcse Cgp Physics Answers Public Domain eBooks
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6. Navigating Gcse Cgp Physics Answers eBook Formats
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 - Gcse Cgp Physics Answers Compatibility with Devices
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8. Staying Engaged with Gcse Cgp Physics Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gcse Cgp Physics Answers
9. Balancing eBooks and Physical Books Gcse Cgp Physics Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gcse Cgp Physics Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gcse Cgp Physics Answers
 - Setting Reading Goals Gcse Cgp Physics Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gcse Cgp Physics Answers
 - Fact-Checking eBook Content of Gcse Cgp Physics Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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