ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY HIGHER · UNIT 24 · 10 QUESTIONS

Magnetism and Electromagnetism — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

1 **A guitar is plugged into an amplifier. What flows through the cable?**

- A electric current
- B sound waves travelling along it
- C water
- D light

Understand It with Pulse | Flag a mistake

2 **A passenger aeroplane cruises. Which force opposes its motion?**

A drag

B weight

C thrust

D lift

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3 **A calculator runs on a small current. What is current measured in?**

A ohms, the unit of resistance

B watts, the unit of power

C volts, the unit of voltage

D amperes

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4 **A passenger train travels at a steady speed. What is its acceleration?**

- A 1 m/s²
- B 9.8 m/s²
- C 10 m/s²
- D 0 m/s²

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5 **Hardcover books have mass. What is mass measured in?**

- A joules
- B watts
- C kilograms
- D newtons, the unit of force

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6 **A transformer has a primary voltage of 230 V. The number of turns on the secondary coil is 10 times smaller than on the primary coil. What is the secondary voltage?**

- A 2300 V
- B 23 V
- C 240 V
- D 46 V

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7 **A yellow school bus is full of children. What is its mass like?**

- A zero
- B smaller than when empty
- C larger than when empty
- D the same as when empty

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8 **A transformer has 200 turns on the primary coil and 50 turns on the secondary coil. What is the turns ratio?**

- A 5
- B 3
- C 4
- D 8

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9 **A transformer has a primary voltage of 240 V. The number of turns on the secondary coil is 5 times smaller than on the primary coil. What is the secondary voltage?**

- A 1200 V
- B 96 V
- C 48 V
- D 250 V

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10 **A transformer has 100 turns on the primary coil and 20 turns on the secondary coil. What is the turns ratio?**

- A 10
- B 6
- C 5
- D 4

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ANSWER KEY

1. A
2. A
3. D
4. D
5. C
6. B
7. C
8. C
9. C
10. C

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