ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY FOUNDATION · UNIT 15 · 10 QUESTIONS

Electricity and Magnetism — 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 **Hardcover books have mass. What is mass measured in?**

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

Understand It with Pulse | Flag a mistake

2 **A basketball bounces. What type of energy is stored when the ball squashes?**

- A thermal
- B kinetic
- C elastic potential
- D gravitational potential

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3 **A guitar amplifier is connected to the mains. What is the voltage of the mains supply in the UK?**

- A 12 V
- B 230 V
- C 110 V
- D 50 V

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4 **A resistor has a potential difference of 6 V across it and a resistance of 4 ohms. What is the current?**

- A 1.5 A
- B 3 A
- C 24 A
- D 0.75 A

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5 **A current of 4 A flows for 20 seconds. How much charge flows?**

- A 80 C
- B 160 C
- C 24 C
- D 40 C

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6 **A lamp runs at 24 V with a current of 5 A. What is its power?**

- A 60 W
- B 130 W
- C 240 W
- D 120 W

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7 **What is a permanent magnet?**

A a magnet made of iron only

B a magnet that can be switched off

C a magnet that is very strong

D a magnet that stays magnetic

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8 **A device works at 12 V with a current of 2 A. What is its power?**

A 12 W

B 34 W

C 24 W

D 48 W

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9 **A component has a potential difference of 10 V across it and a current of 2 A through it. What is its resistance?**

- A 10 ohms
- B 20 ohms
- C 5 ohms
- D 2.5 ohms

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10 **What colour is the neutral wire in a plug?**

- A brown
- B blue
- C green and yellow
- D red

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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