ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY HIGHER · 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 **A wristwatch is used to time a race. What is speed calculated from?**

- A distance and time
- B mass and time together
- C distance only, not time
- D time only, not distance

Understand It with Pulse | Flag a mistake

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

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

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3 **Why can static electricity be dangerous when filling a fuel tanker?**

A the tanker becomes too heavy

B the fuel freezes

C the fuel becomes magnetic

D a spark could ignite it

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4 **A current of 3 A flows for 60 seconds. How much charge flows?**

A 90 C

B 180 C

C 190 C

D 360 C

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5 **What happens to the total resistance when resistors are added in parallel?**

A it stays the same

B it increases

C it becomes zero

D it decreases

Understand It with Pulse | Flag a mistake

6 **What does an ammeter measure?**

A resistance

B power

C voltage

D current

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7 **A lamp runs at 6 V with a current of 4 A. What is its power?**

- A 48 W
- B 24 W
- C 34 W
- D 12 W

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8 **A resistor has a potential difference of 12 V across it and a resistance of 4 ohms. What is the current?**

- A 6 A
- B 48 A
- C 1.5 A
- D 3 A

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9 **A current of 2 A flows for 60 seconds. How much charge flows?**

- A 120 C
- B 240 C
- C 60 C
- D 62 C

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10 **A device works at 6 V with a current of 2 A. What is its power?**

- A 24 W
- B 22 W
- C 12 W
- D 6 W

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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