ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY FOUNDATION · UNIT 15 · 10 QUESTIONS

Electric Circuits — 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 calculator runs on a small current. What is current measured in?**

- A amperes
- B ohms, the unit of resistance
- C watts, the unit of power
- D volts, the unit of voltage

Understand It with Pulse | Flag a mistake

2 **Glass marbles are shaken in a tray. What does this model?**

- A particles bonding together
- B particles disappearing completely
- C particles freezing into place
- D particles gaining energy

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3 **A lamp runs at 12 V with a current of 4 A. What is its power?**

- A 24 W
- B 96 W
- C 48 W
- D 58 W

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4 **What do closely spaced field lines show?**

- A a weak field
- B a strong field
- C a magnetic field
- D no field at all

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5 **A component has a potential difference of 6 V across it and a current of 2 A through it. What is its resistance?**

- A 6 ohms
- B 12 ohms
- C 1.5 ohms
- D 3 ohms

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6 **What is the unit of current?**

- A the volt
- B the amp
- C the watt
- D the ohm

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7 **A current of 5 A flows for 10 seconds. How much charge flows?**

- **A** 25 C
- **B** 100 C
- **C** 50 C
- **D** 15 C

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8 **Which of these can become charged by friction?**

- **A** a magnet
- **B** an insulator
- **C** a metal wire, which is a conductor
- **D** a battery

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9 **A current of 3 A flows for 10 seconds. How much charge flows?**

- A 40 C
- B 15 C
- C 30 C
- D 60 C

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10 **A device works at 230 V with a current of 3 A. What is its power?**

- A 700 W
- B 690 W
- C 345 W
- D 1380 W

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ANSWER KEY

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

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