ENGLAND GCSE PHYSICS EDEXCEL FOUNDATION · UNIT 10 · 10 QUESTIONS

Electricity and 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 to let Brett know so he can fix it.

1 **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 amperes
- D volts, the unit of voltage

Understand It with Pulse | Flag a mistake

2 **A tennis ball bounces. What happens to its kinetic energy?**

- A some becomes heat
- B it all stays kinetic energy
- C it becomes light energy
- D it disappears completely

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

A the amp

B the volt

C the ohm

D the watt

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4 **A guitar string vibrates to make a sound. What type of wave is the sound wave?**

A electromagnetic

B standing

C longitudinal

D transverse

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5 **A component has a potential difference of 12 V across it and a current of 4 A through it. What is its resistance?**

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

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6 **A resistor has a potential difference of 24 V across it and a resistance of 6 ohms. What is the current?**

- A 4 A
- B 144 A
- C 8 A
- D 2 A

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7 **A wristwatch is used to time a race. What is speed calculated from?**

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

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

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

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9 **A current of 3 A flows for 30 seconds. How much charge flows?**

- A 180 C
- B 90 C
- C 100 C
- D 45 C

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10 **Hardcover books are stacked on a table. What force pulls them down?**

- A tension
- B gravity
- C air resistance
- D friction

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ANSWER KEY

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

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