ENGLAND GCSE PHYSICS OCR GATEWAY FOUNDATION · UNIT 3 · 10 QUESTIONS

Electricity — 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 basketball bounces. What type of energy is stored when the ball squashes?**

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

Understand It with Pulse | Flag a mistake

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

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

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3 **A charged rod attracts small pieces of paper. Why?**

A it induces a charge

B the rod heats the paper

C paper is always charged

D paper is magnetic

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4 **A wristwatch ticks every second. How many ticks in a minute?**

A 30

B 100

C 12

D 60

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5 **A component has a potential difference of 6 V across it and a current of 4 A through it. What is its resistance?**

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

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

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

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7 **A lamp runs at 24 V with a current of 3 A. What is its power?**

- **A** 144 W
- **B** 72 W
- **C** 82 W
- **D** 36 W

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

- **A** 90 C
- **B** 40 C
- **C** 160 C
- **D** 80 C

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9

Hardcover books have mass. What is mass measured in?

A newtons, the unit of force

B joules

C watts

D kilograms

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10

What do closely spaced field lines show?

A a strong field

B a magnetic field

C no field at all

D a weak field

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ANSWER KEY

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

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