ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY HIGHER · UNIT 19 · 25 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 so it can be fixed.

1 **A tennis ball is hit across a court. Which force slows the ball down in the air?**

- A friction with the ground
- B air resistance
- C the hit
- D gravity

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2 **A calculator runs on a small current. What is current measured in?**

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

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

- A transverse
- B longitudinal
- C standing
- D electromagnetic

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

- A 12
- B 60
- C 30
- D 100

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5 **Hardcover books are dropped. What happens to their speed as they fall?**

- A it increases
- B it decreases
- C it becomes zero
- D it stays the same

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

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

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7 **What is the same everywhere in a series circuit?**

A the current

B the resistance

C the power

D the potential difference

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8 **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 1.5 ohms

C 6 ohms

D 48 ohms

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9 **What happens when two objects with the same charge are near each other?**

- A they attract
- B they repel
- C nothing happens
- D they neutralise

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

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

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11 **A current of 2 A flows for 10 seconds. How much charge flows?**

- **A** 10 C
- **B** 40 C
- **C** 12 C
- **D** 20 C

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12 **A resistor has a potential difference of 12 V across it and a resistance of 2 ohms. What is the current?**

- **A** 12 A
- **B** 24 A
- **C** 3 A
- **D** 6 A

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

- A 0.6 ohms
- B 2.4 ohms
- C 1.2 ohms
- D 30 ohms

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14 **What happens when two objects with opposite charges are near each other?**

- A they attract
- B they neutralise
- C they repel
- D nothing happens

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15 **What colour is the live wire in a plug?**

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

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16 **A device works at 6 V with a current of 5 A. What is its power?**

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

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

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

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

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

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19 **What happens to the total resistance when resistors are added in series?**

A it becomes zero

B it stays the same

C it increases

D it decreases

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20 **What is the unit of resistance?**

A the amp

B the ohm

C the volt

D the watt

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

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

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

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

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23 **A resistor has a potential difference of 24 V across it and a resistance of 2 ohms. What is the current?**

- **A** 24 A
- **B** 12 A
- **C** 48 A
- **D** 6 A

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24 **What does an ammeter measure?**

- **A** voltage
- **B** current
- **C** power
- **D** resistance

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25

What is the frequency of UK mains electricity?

A 50 Hz

B 230 Hz

C 100 Hz

D 60 Hz

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Flag a mistake

ANSWER KEY

1.	B	**10.**	A	**19.**	C
2.	D	**11.**	D	**20.**	B
3.	B	**12.**	D	**21.**	D
4.	B	**13.**	C	**22.**	C
5.	A	**14.**	A	**23.**	B
6.	B	**15.**	A	**24.**	B
7.	A	**16.**	B	**25.**	A
8.	A	**17.**	C		
9.	B	**18.**	D		

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