ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY FOUNDATION · 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 served fast. What is its speed like?**

- A negative
- B zero
- C low
- D high

Understand It with Pulse | Flag a mistake

2 **A basketball is dropped. What energy store increases as it falls?**

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

Understand It with Pulse | Flag a mistake

3 **A guitar string is tightened. What happens to the pitch?**

- A it falls
- B it disappears
- C it rises
- D it stays the same

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

5 **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

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

A 30

B 12

C 60

D 100

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

8 **A device works at 230 V with a current of 2 A. What is its power?**

- A 230 W
- B 460 W
- C 470 W
- D 920 W

Understand It with Pulse | Flag a mistake

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

A the current

B the resistance

C the potential difference

D the power

Understand It with Pulse | Flag a mistake

10 **A current of 4 A flows for 10 seconds. How much charge flows?**

A 20 C

B 14 C

C 40 C

D 80 C

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

12 **What colour is the neutral wire in a plug?**

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

- A 90 C
- B 360 C
- C 63 C
- D 180 C

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

16 **What does an ammeter measure?**

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

Understand It with Pulse | Flag a mistake

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

- A 60 ohms
- B 1.2 ohms
- C 4.8 ohms
- D 2.4 ohms

Understand It with Pulse | Flag a mistake

18 **A device works at 12 V with a current of 5 A. What is its power?**

- A 60 W
- B 70 W
- C 30 W
- D 120 W

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

23 **Two 4 ohm resistors are in series. What is the total resistance?**

- A 8 ohms
- B 4 ohms
- C 2 ohms
- D 16 ohms

Understand It with Pulse | Flag a mistake

24 **A current of 2 A flows for 20 seconds. How much charge flows?**

- A 40 C
- B 80 C
- C 22 C
- D 20 C

Understand It with Pulse | Flag a mistake

25

What is the frequency of UK mains electricity?

A 60 Hz

B 50 Hz

C 230 Hz

D 100 Hz

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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