ENGLAND GCSE COMBINED SCIENCE EDEXCEL HIGHER · UNIT 25 · 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 so it can be fixed.

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

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

Understand It with Pulse | Flag a mistake

2 **A guitar amplifier is connected to the mains. What is the voltage of the mains supply in the UK?**

- A 110 V
- B 230 V
- C 12 V
- D 50 V

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

4 **A current of 4 A flows for 60 seconds. How much charge flows?**

- A 120 C
- B 240 C
- C 480 C
- D 64 C

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

6 **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 4.8 ohms
- C 1.2 ohms
- D 2.4 ohms

Understand It with Pulse | Flag a mistake

7 **A lamp runs at 6 V with a current of 5 A. What is its power?**

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

9 **What is the unit of potential difference?**

A the ohm

B the watt

C the volt

D the amp

Understand It with Pulse | Flag a mistake

10 **What does a light-dependent resistor do in bright light?**

A its resistance rises

B its resistance stays the same

C it makes its own light

D its resistance falls

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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