ENGLAND GCSE PHYSICS OCR TWENTY FIRST CENTURY FOUNDATION · UNIT 3 · 10 QUESTIONS

Electric 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 is switched on. What does the battery transfer energy to?**

- A the buttons only
- B the screen only
- C the case
- D the circuits

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

3 **A device works at 230 V with a current of 5 A. What is its power?**

- A 575 W
- B 2300 W
- C 1160 W
- D 1150 W

Understand It with Pulse | Flag a mistake

4 **A lamp runs at 24 V with a current of 4 A. What is its power?**

- A 48 W
- B 192 W
- C 96 W
- D 106 W

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

6 **A resistor has a potential difference of 6 V across it and a resistance of 3 ohms. What is the current?**

- A 1 A
- B 4 A
- C 2 A
- D 18 A

Understand It with Pulse | Flag a mistake

7 **What happens when a plastic rod is rubbed with a cloth?**

A protons move onto the rod

B the rod loses all its charge

C electrons move onto the rod

D neutrons move onto the rod

Understand It with Pulse | Flag a mistake

8 **Where is an electric field strongest?**

A far from the charge

B in the middle of nowhere

C where there is no charge

D close to the charge

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

10 **A component has a potential difference of 20 V across it and a current of 2 A through it. What is its resistance?**

- A 20 ohms
- B 40 ohms
- C 10 ohms
- D 5 ohms

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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