CALIFORNIA PHYSICS · UNIT 3 · 5 QUESTIONS

Electricity and Magnetism — 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 24 V battery drives 4 A. The resistance is**

- **A** 6 Ω
- **B** 20 Ω
- **C** 96 Ω
- **D** 28 Ω

Understand It with Pulse | Flag a mistake

2 **Several small electronic resistors with coloured bands lie on a wooden workbench. Resistors of 5 Ω, 5 Ω and 5 Ω in series give**



A 5 Ω

B 1.67 Ω

C 25 Ω

D 15 Ω

Understand It with Pulse | Flag a mistake

3 **Resistors of 4 Ω and 4 Ω in parallel give**

A 16 Ω

B 2 Ω

C 8 Ω

D 4 Ω

Understand It with Pulse | Flag a mistake

4 **A 3 A current flows for 20 s. The charge is**

A 17 C

B 60 C

C 23 C

D 6.7 C

Understand It with Pulse | Flag a mistake

5 **Doubling one charge while keeping distance fixed changes the force by a factor of**

A 4

B $\frac{1}{2}$

C 2

D $\frac{1}{4}$

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. A
2. D
3. B
4. B
5. C

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