ALASKA PHYSICS · UNIT 3 · 5 QUESTIONS

Electricity, Magnetism, and Waves — 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 current of 5 A flows through a resistor of 3 ohms. The voltage across it is**

- A 8 V
- B 15 V
- C 1.67 V
- D 45 V

Understand It with Pulse | Flag a mistake

2 **A voltage of 40 V is applied across an 8 ohm resistor. The current is**

- A 5 A
- B 48 A
- C 0.2 A
- D 320 A

Understand It with Pulse | Flag a mistake

3 **Resistors of 10 ohms, 15 ohms, and 5 ohms in series have total resistance**

- A 30 ohms
- B 150 ohms
- C 50 ohms
- D 2 ohms

Understand It with Pulse | Flag a mistake

4 **Resistors of 8 ohms and 8 ohms in parallel have total resistance**

A 16 ohms

B 64 ohms

C 4 ohms

D 1 ohm

Understand It with Pulse | Flag a mistake

5 **Small silver electric motor with cooling fins and power cable on a wooden workbench, large in frame. A current of 2 A flows through a 5 ohm resistor. Its electric power is**



A 4 W

B 100 W

C 10 W

D 20 W

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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