ARKANSAS 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 long straight open country road stretching to the horizon through flat farmland, vanishing point in the distance, blue sky with a few clouds, no people, no cars. A charge of 90 coulombs passes a point in 30 seconds The current is**



A 2 amperes

B 3 amperes

C 6 amperes

D 9 amperes

Understand It with Pulse | Flag a mistake

2 **A current of 5 amperes flows through a resistor of 4 ohms The voltage across the resistor is**

- A 9 volts
- B 25 volts
- C 20 volts
- D 45 volts

Understand It with Pulse | Flag a mistake

3 **A voltage of 48 volts is applied across a resistor carrying 6 amperes The resistance is**

- A 12 ohms
- B 42 ohms
- C 288 ohms
- D 8 ohms

Understand It with Pulse | Flag a mistake

4 **Resistors of 5 ohms and 10 ohms are connected in series The total resistance is**

- A 15 ohms
- B 5 ohms
- C 50 ohms
- D 2 ohms

Understand It with Pulse | Flag a mistake

5 **Resistors of 12 ohms and 4 ohms are connected in parallel The total resistance is**

- A 16 ohms
- B 3 ohms
- C 8 ohms
- D 48 ohms

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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