MARYLAND 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 2 A flows through a resistor of 9 ohms. The voltage across it is**

- **A** 18 V
- **B** 4.5 V
- **C** 11 V
- **D** 7 V

Understand It with Pulse | Flag a mistake

2 **Resistors of 5 ohms and 5 ohms in parallel have total resistance**

- A 10 ohms
- B 25 ohms
- C 2.5 ohms
- D 0 ohms

Understand It with Pulse | Flag a mistake

3 **A wave has frequency 10 Hz and wavelength 3 m. Its speed is**

- A 3.33 m/s
- B 13 m/s
- C 0.3 m/s
- D 30 m/s

Understand It with Pulse | Flag a mistake

4 **If the frequency of a wave doubles while its speed stays the same, its wavelength**

- A doubles
- B halves
- C quadruples
- D stays the same

Understand It with Pulse | Flag a mistake

5 **Opposite electric charges**

- A repel
- B attract
- C have no effect
- D always cancel to zero force

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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