CALIFORNIA PHYSICS · UNIT 3 · 10 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 50 N/C field acts on a 2 C charge. The force is**

- A 100 N
- B 25 N
- C 48 N
- D 52 N

Understand It with Pulse | Flag a mistake

2 **Opposite charges**

- A repel
- B attract
- C become neutral instantly
- D have no effect

Understand It with Pulse | Flag a mistake

3 **The unit of resistance is the**

A ampere

B watt

C volt

D ohm

Understand It with Pulse | Flag a mistake

4 **A 12 V battery across 6 Ω gives a current, in amperes, of ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A current of 2 A through 9 Ω gives a voltage, in volts, of ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Resistors of 8 Ω and 2 Ω in series give an equivalent resistance, in ohms, of _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A 20 V supply drives 2.5 A. The power, in watts, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A 5 A current flows for 12 s. The charge, in coulombs, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

9

Like magnetic poles

A have no effect

B attract

C repel

D cancel the field

Understand It with Pulse | Flag a mistake

10

An ammeter is connected

A outside the circuit

B in parallel with the circuit

C across the battery only

D in series with the circuit

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	A	**5.**	18	**9.**	C
2.	B	**6.**	10	**10.**	D
3.	D	**7.**	50		
4.	2	**8.**	60		

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