NOVA SCOTIA PHYSICS 12 · UNIT D

Fields, Circuits and Electromagnetism — Practice Test

Nova Scotia Physics 12 • 10 questions

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 1 amperes flows through a resistor of 12 ohms. The potential difference, in volts, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Resistors of 4 ohms, 6 ohms and 10 ohms are connected in series. The total resistance, in ohms, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Resistors of 12 ohms, 8 ohms and 10 ohms are connected in series. The total resistance, in ohms, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Resistors of 20 ohms and 5 ohms are connected in parallel. The total resistance, in ohms, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Resistors of 8 ohms and 8 ohms are connected in parallel. The total resistance, in ohms, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A device operates at 20 volts and draws 2 amperes. Its power, in watts, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A device operates at 6 volts and draws 5 amperes. Its power, in watts, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **An ammeter is connected in series because it measures**

- A current through a component
- B voltage across a component
- C resistance only
- D power only

Understand It with Pulse | Flag a mistake

9 **A voltmeter is connected in parallel because it measures**

- A current through a component
- B potential difference across a component
- C charge only
- D energy only

Understand It with Pulse | Flag a mistake

10 **Electromagnetic induction occurs when magnetic flux through a coil**

A stays constant

B is zero always

C changes

D is large only

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	12	**5.**	4	**9.**	B
2.	20	**6.**	40	**10.**	C
3.	30	**7.**	30		
4.	4	**8.**	A		

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