NEWFOUNDLAND AND LABRADOR PHYSICS 3204 · UNIT C

Electricity and Magnetism — Practice Test

Newfoundland and Labrador Physics 3204 • 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 **In a parallel circuit, the voltage across each branch is the**

- **A** different
- **B** same
- **C** zero
- **D** maximum

Understand It with Pulse | Flag a mistake

2 **A magnetic field around a straight wire forms circles centred on the**

- A magnet
- B charge
- C wire
- D field line

Understand It with Pulse | Flag a mistake

3 **The strength of an electromagnet can be increased by increasing current or the number of**

- A wires only
- B magnets only
- C batteries in parallel
- D turns

Understand It with Pulse | Flag a mistake

4 **Faraday law states that induced voltage is proportional to the rate of change of magnetic**

- A flux
- B force
- C field strength only
- D current only

Understand It with Pulse | Flag a mistake

5 **A charge of 4 coulombs experiences a force of 20 newtons. The electric field strength in newtons per coulomb is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A voltage of 9 volts drives a current of 3 amperes. The resistance in ohms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A current of 5 amperes flows through a 2 ohm resistor. The voltage in volts is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A transformer has 200 primary turns and 50 secondary turns with primary voltage 240 volts. The secondary voltage in volts is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Two resistors of 10 ohms and 10 ohms are in series. The total resistance in ohms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A charge of 5 coulombs moves through 6 volts. The energy in joules is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	B	**5.**	5	**9.**	20
2.	C	**6.**	3	**10.**	30
3.	D	**7.**	10		
4.	A	**8.**	60		

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