CONNECTICUT PHYSICS · UNIT 3 · 25 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 charge of 2 coulombs moves through a potential difference of 5 volts. The energy transferred is**

ANSWER _____

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2 **A charge of 4 coulombs moves through a potential difference of 3 volts. The energy transferred is**

ANSWER _____

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3 **A charge of 3 coulombs moves through a potential difference of 10 volts. The energy transferred is**

ANSWER _____

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4 **A charge of 5 coulombs moves through a potential difference of 2 volts. The energy transferred is**

ANSWER

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5 **A charge of 1 coulombs moves through a potential difference of 12 volts. The energy transferred is**

ANSWER

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6 **A voltage of 12 volts is applied across a resistance of 4 ohms. The current is**

ANSWER

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7 **A voltage of 20 volts is applied across a resistance of 5 ohms. The current is**

ANSWER

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8 **A voltage of 9 volts is applied across a resistance of 3 ohms. The current is**

ANSWER _____

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9 **A voltage of 24 volts is applied across a resistance of 6 ohms. The current is**

ANSWER _____

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10 **A voltage of 15 volts is applied across a resistance of 3 ohms. The current is**

ANSWER _____

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11 **A current of 2 amps flows through a resistance of 5 ohms. The voltage is**

ANSWER _____

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12 **A current of 3 amps flows through a resistance of 4 ohms. The voltage is**

ANSWER _____

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13 **A current of 4 amps flows through a resistance of 2 ohms. The voltage is**

ANSWER _____

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14 **A current of 5 amps flows through a resistance of 3 ohms. The voltage is**

ANSWER _____

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15 **A current of 2 amps flows through a resistance of 10 ohms. The voltage is**

ANSWER _____

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16 **A device uses 12 volts and 2 amps. Its power is**

ANSWER _____

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17 **A device uses 20 volts and 4 amps. Its power is**

ANSWER _____

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18 **A device uses 10 volts and 5 amps. Its power is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A device uses 30 volts and 3 amps. Its power is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A device uses 24 volts and 4 amps. Its power is**

ANSWER

Understand It with Pulse | Flag a mistake

21 **A wave has frequency 5 hertz. Its period is**

A $\frac{1}{5}$

B 5

C $\frac{1}{6}$

D 1

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22 **A wave has frequency 10 hertz. Its period is**

- **A** 10
- **B** $\frac{1}{10}$
- **C** $\frac{1}{11}$
- **D** 1

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23 **A wave has frequency 20 hertz. Its period is**

- **A** 20
- **B** $\frac{1}{21}$
- **C** $\frac{1}{20}$
- **D** 1

Understand It with Pulse | Flag a mistake

24 **A wave has frequency 2 hertz. Its period is**

- **A** 2
- **B** $\frac{1}{3}$
- **C** 1
- **D** $\frac{1}{2}$

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25 **A wave has frequency 4 hertz. Its period is**

- **A** $\frac{1}{4}$
- **B** 4
- **C** $\frac{1}{5}$
- **D** 1

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	10	**10.**	5	**19.**	90
2.	12	**11.**	10	**20.**	96
3.	30	**12.**	12	**21.**	A
4.	10	**13.**	8	**22.**	B
5.	12	**14.**	15	**23.**	C
6.	3	**15.**	20	**24.**	D
7.	4	**16.**	24	**25.**	A
8.	3	**17.**	80		
9.	4	**18.**	50		

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