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What law states that the force of electrostatic attraction or repu	
harges and inversely proportional to the square of the distance . Ampere's Law . Coulomb's Law . Ohm's Law . Volt's Law	* * *
NSWER: b	
POINTS: 1	

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Name:	Class:	Date:

- 6. One coulomb per second is equal to one _____.
 - a. ampere
 - b. ohm
 - c. volt
 - d. watt

ANSWER: a POINTS: 1

REFERENCES: 2-2 The Ampere

- 7. The velocity of AC through a conductor is _____ the speed of light.
 - a. equal to
 - b. greater than
 - c. less than

ANSWER: c
POINTS: 1

REFERENCES: 2-5 Speed of Current

- 8. A complete circuit is often referred to as a(n) _____ circuit.
 - a. closed
 - b. open
 - c. shorted
 - d. grounded

ANSWER: a POINTS: 1

REFERENCES: 2-6 Basic Electric Circuits

- 9. If a circuit is open, current _____ flow.
 - a. will
 - b. will not

ANSWER: b
POINTS: 1

REFERENCES: 2-6 Basic Electric Circuits

Name:	Class:	Date:

- 10. What type of circuit generally occurs when the conductors leading from and back to the power source become connected?
 - a. short
 - b. grounded
 - c. open
 - d. closed

ANSWER: a POINTS: 1

REFERENCES: 2-6 Basic Electric Circuits

- 11. The neutral conductor is also referred to as the _____ conductor.
 - a. hot
 - b. grounded
 - c. short
 - d. safety

ANSWER: b
POINTS: 1

REFERENCES: 2-6 Basic Electric Circuits

- 12. What is another term for electromotive force (EMF)?
 - a. Amperage
 - b. Ohmage
 - c. Voltage
 - d. Wattage

ANSWER: c
POINTS: 1

REFERENCES: 2-7 The Volt

- 13. The amount of potential necessary to cause one coulomb to produce one joule of work is a(n) _____.
 - a. ampere
 - b. ohm
 - c. volt
 - d. watt

ANSWER: c
POINTS: 1

REFERENCES: 2-7 The Volt

Name:	Class:	Date:

- 14. The unit of resistance to current flow is the _____.
 - a. ampere
 - b. ohm
 - c. volt
 - d. watt

ANSWER: b
POINTS: 1

REFERENCES: 2-8 The Ohm

- 15. What causes a wire to become warm when current flows through it?
 - a. amperage
 - b. resistance
 - c. voltage
 - d. divergence

ANSWER: b
POINTS: 1

REFERENCES: 2-8 The Ohm

- 16. The amount of electrical power being used in a circuit is measured in _____.
 - a. amperes
 - b. volts
 - c. ohms
 - d. watts

ANSWER: d
POINTS: 1

REFERENCES: 2-9 The Watt

- 17. Approximately how many horsepower is an electrical device listed as 3,000 watts?
 - a. 1/4
 - b. 1/6
 - c. 4
 - d. 6

ANSWER: c
POINTS: 1

REFERENCES: 2-10 Other Measures of Power

Name:	Class:	Date:
variie.	Class.	Date.

18.	The statement,	"In a DC	circuit, the cur	rent is directly	proportional to	o voltage and	inversely j	proportional	to
	resistance," is	know as _	law.						

- a. Ampere's
- b. Coulomb's
- c. Ohm's
- d. Volt's

ANSWER: c
POINTS: 1

REFERENCES: 2-11 Ohm's Law

- 19. An electrical circuit has a voltage of 50 V and a resistance of 5 Ω . What is the value of current?
 - a. 10 A
 - b. 45 A
 - c. 55 A
 - d. 250 A

ANSWER: a POINTS: 1

REFERENCES: 2-11 Ohm's Law

- 20. An electric motor is running on 120 V. The current is measured to be 2 A. How many ohms of resistance is the motor?
 - a. 60
 - b. 118
 - c. 122
 - d. 240

ANSWER: a POINTS: 1

REFERENCES: 2-11 Ohm's Law

- 21. An electric circuit has a resistance of 20 Ω . The current is measured to be 6 A. How many volts are applied to the circuit?
 - a. 3 1/3
 - b. 14
 - c. 26
 - d. 120

ANSWER: d
POINTS: 1

REFERENCES: 2-11 Ohm's Law

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Name:		Class:	Date:
Unit 2 Electrical	Quantities and Ohm's Law		
22. A toaster is lis will it draw?	ted as 1560 W. When it is plugg	ed into a 120 V circuit and starts	s to make toast, how many amperes
a. 13			
b. 1440			
c. 1680			
d. 187,200			
ANSWER:	a		
POINTS:	1		
REFERENCE	S: 2-11 Ohm's Law		
23. What standard	prefix in engineering notation in	dicates multiplication by 1,000,00	00,000?
a. kilo (K)			
b. tera (T)			
c. giga (G)			
d. mega (M)			
ANSWER:	c		
POINTS:	1		
REFERENCE	S: 2-12 Metric Prefixes		
24. Conventional	current flow theory states that cu	rrent flows from the most positive	ve point to the most
ANSWER:	negative		
POINTS:	1		
	S: 2-4 The Conventional Curren	t Flow Theory	
25. The theory co theory.	ncerning current flow that is mo	est widely accepted as being corn	rect is the flow
ANSWER:	electron		
POINTS:	1		
DEFEDENCE	S: 2-3 The Electron Flow Theor		

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