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•		Class:	ctricity-6th-edition-herman-test-banDate:
Unit 2 Electrical Q	Quantities and Ohm's Law		
•	nductor helps prevent a shock lease or frame of an appliance	9	ounded, or hot, conductor comes in
b. False			
ANSWER:	True		
POINTS:	1		
REFERENCES:	2-6 Basic Electric Circuits		
<ul><li>2. During normal or conductors.</li><li>a. True</li><li>b. False</li></ul>	peration of a typical 120-volt a	ppliance circuit, current flows the	hrough the hot, grounding, and neutra
ANSWER:	False		
POINTS:	1		
REFERENCES:	2-6 Basic Electric Circuits		
3. The grounding p a. True	rong of a plug should never be	e cut off or bypassed.	
b. False			
ANSWER:	True		
POINTS:	1		
REFERENCES:	2-6 Basic Electric Circuits		
4. Voltage flows th	rough an electric circuit like w	vater flows through a pipe.	
a. True	C		
b. False			
ANSWER:	False		
POINTS:	1		
REFERENCES:	2-7 The Volt		
	ersely proportional to the squa	attraction or repulsion is directly re of the distance between them	y proportional to the product of the ta?
b. Coulomb's La	w		
c. Ohm's Law			
d. Volt's Law			
ANSWER:	b		
POINTS:	1		
REFERENCES:	2-1 The Coulomb		

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- 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

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- 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

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variie.	Class.	Date.

18.	The statement,	"In a DC	circuit, the cur	rrent is directly	y proportional t	to voltage and	inversely	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  $\Omega$ . 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  $\Omega$ . 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

## Delmars Standard Textbook of Electricity 6th Edition Herman Test Bank Full Download: http://testbanklive.com/download/delmars-standard-textbook-of-electricity-6th-edition-herman-test-bank/ Name: Class: Date: Unit 2 Electrical Quantities and Ohm's Law

22. A toaster is listed as 1560 W. When it is plugged into a 120 V circuit and starts to make toast, how many amperes will it draw? a. 13 b. 1440 c. 1680 d. 187,200 ANSWER: a **POINTS:** 1 REFERENCES: 2-11 Ohm's Law 23. What standard prefix in engineering notation indicates multiplication by 1,000,000,000? a. kilo (K) b. tera (T) c. giga (G) d. mega (M) ANSWER: c **POINTS:** 1 REFERENCES: 2-12 Metric Prefixes 24. Conventional current flow theory states that current flows from the most positive point to the most ANSWER: negative 1 **POINTS:** REFERENCES: 2-4 The Conventional Current Flow Theory

25. The theory concerning current flow that is most widely accepted as being correct is the \_\_\_\_\_\_ flow theory.

ANSWER: electron **POINTS:** 1

REFERENCES: 2-3 The Electron Flow Theory

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