Name: Class: Date:

Unit 2 Electrical Quantities and Ohm's Law

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A grounding conductor helps prevent a shock hazard in the event that an ungrounded, or hot, conductor comes in contact with the case or frame of an appliance. a. True

b. False

ANSWER: True

POINTS: 1

REFERENCES: 2-6 Basic Electric Circuits

2. During normal operation of a typical 120-volt appliance circuit, current flows through the hot, grounding, and neutral conductors. a. True

b. False

ANSWER: False

POINTS: 1

REFERENCES: 2-6 Basic Electric Circuits

3. The grounding prong of a plug should never be cut off or bypassed. a. True

b. False

ANSWER: True

POINTS: 1

REFERENCES: 2-6 Basic Electric Circuits

4. Voltage flows through an electric circuit like water flows through a pipe. a. True

b. False

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ANSWER: False

REFERENCES: 2-7 The Volt

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- 5. What law states that the force of electrostatic attraction or repulsion is directly proportional to the product of the two charges and inversely proportional to the square of the distance between them? a. Ampere's Law
 - b. Coulomb's Law
 - c. Ohm's Law

POINTS:

d. Volt's Law

ANSWER: b
POINTS: 1

REFERENCES: 2-1 The Coulomb

- 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

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	REFERENCES.	· 2-6 Basic Electric Circuits		
9.	If a circuit is op a. will b. will not <i>ANSWER</i> :	ben, currentflow.		
	POINTS:	1		
	REFERENCES.	· 2-6 Basic Electric Circuits		
10	b. What type of ci connected? a. si b. grounded c. open d. closed	•	conductors leading from	m and back to the power source become
	ANSWER:	a		
	POINTS:	1		
	REFERENCES	· 2-6 Basic Electric Circuits		
11	b. grounded c. short d. safety <i>ANSWER:</i>	ductor is also referred to as the _b	conductor. a. hot	
	POINTS:	1		
	REFERENCES.	· 2-6 Basic Electric Circuits		
12	a. What is another a. Amperage b. Ohmage c. Voltage d. Wattage	term for electromotive force (El	MF)?	
	ANSWER:	c		
	POINTS:	1		
	REFERENCES.	2-7 The Volt		
13	b. ohm c. volt	potential necessary to cause one of	coulomb to produce on	e joule of work is a(n) a. ampere

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d. watt

ANSWER: c
POINTS: 1

REFERENCES: 2-7 The Volt

- 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

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Unit 2 Electrical (Quantities and Ohm's Lav	W	
POINTS:	1		
REFERENCES:	: 2-10 Other Measures of P	ower	
	"In a DC circuit, the curren know aslaw. a. Ampo	* * *	ltage and inversely proportional to
b. Coulomb's			
c. Ohm's			
d. Volt's			
ANSWER:	c		
POINTS:	1		
REFERENCES:	: 2-11 Ohm's Law		
19. An electrical cir	rcuit has a voltage of 50 V a	and a resistance of 5 Ω . What i	is the value of current? a. 10 A
b. 45 A	Ç		
c. 55 A			
d. 250 A			
ANSWER:	a		
POINTS:	1		
REFERENCES:	: 2-11 Ohm's Law		
20. An electric mot motor? a. 60	or is running on 120 V. The	current is measured to be 2 A.	. How many ohms of resistance is the
b. 118			
c. 122			
d. 240			
ANSWER:	a		
POINTS:	1		
REFERENCES:	: 2-11 Ohm's Law		
21. An electric circ	wit has a resistance of 20 Ω	. The current is measured to be	e 6 A. How many volts are applied to
the			, , , , ,
circuit?			
a. 3 1/3			
b. 14			
c. 26			

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d. 120 ANSWER:

POINTS:

d

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REFERENCES: 2-11 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: 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:

REFERENCES: 2-12 Metric Prefixes

24. Conventional current flow theory states that current flows from the most positive point to the most

negative ANSWER:

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 _____ theory.

ANSWER: electron

POINTS:

REFERENCES: 2-3 The Electron Flow Theory

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