## Unit 2: Electrical Quantities, Ohm's Law, and Resistors

5. Voltage is actually defined as \_\_\_\_\_ force or EMF.

a. electromagnetic

TRUE	E/FALSE					
1.	The impulse of electr	ricity is	very slow.			
	ANS: F	PTS:	1	REF:	Speed of Current	
2.	Energy cannot be created or destroyed, and its form cannot be changed.					
	ANS: F	PTS:	1	REF:	The Watt	
3.	Metric units of measure	ure are	used in the elec	trical fi	eld just as they are in most scientific fields.	
	ANS: T	PTS:	1	REF:	Metric Units	
4.	Fixed resistors have only one ohmic value, but it is adjustable.					
	ANS: F	PTS:	1	REF:	Resistors	
5.	The symbol used to represent a resistor on an electrical schematic is standard.					
	ANS: F	PTS:	1	REF:	Resistors	
MIII	FIPLE CHOICE					
MUL	TIPLE CHOICE					
1.	The is defined a					
	a. amp		1		volt	
	b. watt			d.	ohm	
	ANS: A	PTS:	1	REF:	The Amp	
2.	The theory states that current flows from the most positive point to the most negative.					
2.	a. negative current		diffent nows in		conventional current flow	
	b. terminal				electron	
	ANS: C	PTS:	1	REF:	The Conventional Current Theory	
3.	A complete circuit is	often re	eferred to as alr	•)	circuit	
٦.	a. short	OIICH I	ciciica io as a(i		closed	
	b. grounded				open	
	ANS: C	PTS:	1	REF:	Basic Electric Circuits	
4.	The grounded conductor, or conductor, provides the return path and completes the circuit back to					
	the power source.			2	nocitivo	
	<ul><li>a. neutral</li><li>b. short</li></ul>				positive negative	
					•	
	ANS: A	PTS:	1	REF:	Basic Electric Circuits	

c. electrically maneuverable

	b. electric-mechanical d.			electromotive
	ANS: D	PTS: 1	REF:	The Volt
6.	A(n) is the means a. amp b. watt	asurement of	c.	low of current. volt ohm
	ANS: D	PTS: 1	REF:	The Ohm
7.	A 24-ohm resistor is <b>a.</b> 1.0 W <b>b.</b> 1.5 W	connected to	c.	2.0 W 2.5 W
	ANS: B	PTS: 1	REF:	The Watt
8.	Ohm's Law states the a. $I + R$ b. $I \times R$	at E =		R ÷ I R + I
	ANS: B	PTS: 1	REF:	Ohm's Law
9.	Which engineering ua. tera b. micro	ınit means y	c.	by 1,000? mega kilo
	ANS: D	PTS: 1	REF:	Metric Units
10.	A 30-ohm resistor is <b>a.</b> 0.5 A <b>b.</b> 1.0 A ANS: A	PTS: 1	c. d.	What is the current in the circuit?  1.5 A  2.0 A  Resistors
11.	The second principa a. resistance b. inductance	l function of	c.	duce a(n) divider. voltage current
	ANS: C	PTS: 1	REF:	Resistors
12.	Carbon resistors are a. ceramic b. metal	made from a	c.	bon graphite and a bonding material. resin glass
	ANS: C	PTS: 1	REF:	Resistors
13.	In the color code, what a. 2 b. 4	nat value doe	es blue represent? c. d.	
	ANS: C	PTS: 1	REF:	Resistors
14.	Resistors have a pow a. ohms b. volts	ver rating in	c.	not be exceeded or the resistor will be damaged. watts amps
	ANS: C	PTS: 1	REF:	Resistors

15. A \_\_\_\_ is a variable resistor that has two terminals.
a. potentiometer c.

c. wire wound resistor

b. rheostat d. carbon film

PTS: 1 ANS: B **REF:** Resistors