EET1033 Fund of DC/AC H-2 Electrical Quantities and Ohm's Law

Multiple Choice

Identify the choice that best completes the statement or answers the question.

 1.	The is a measurement of the amount of electricity that is flowing through a circuit.				
	a. ampere	c.	volt		
	b. ohm	d.	watt		
 2.	states that since electrons are negative pa	rticl	es, current flows from the most negative point in the circuit		
	a. The conventional current flow theory	c.	Electromotive force		
	b. Ohm's Law	d.	The electron theory		
3.	states that current flows from the most po	ositi	ve point in a circuit to the most negative.		
	a. The conventional current flow theory	c.	Electromotive force		
	b. Ohm's Law	d.	The electron theory		
4.	In an electrical circuit, the offers resistan	ce to	the circuit and limits the amount of current that can flow.		
	a. voltage	c.	neutron		
	b. load	d.	proton		
 5.	A circuit is a circuit with very little or no	resi	istance.		
	a. open	c.	short		
	b. complete	d.	grounded		
 6.	A circuit where a path other than the one inten-	ded	is established to ground is said to be		
	a. open	c.	complete		
	b. shorted	d.	grounded		
 7.	7. A conductor connected to the case of an appliance to provide a low-resistance path to ground is called a conductor.				
	a. grounded	c.	neutral		
	b. grounding	d.	ungrounded		
 8.	3. The conductor provides the return path and completes the circuit back to the power source.				
	a. grounding	c.	neutral		
	b. grounded	d.	either b or c		
 9.	Electrical current will flow through the c	uctor only when a circuit fault develops.			
	a. grounded	c.	neutral		
	b. grounding	d.	ungrounded		
 10.	The <u>conductor</u> is used to help prevent a s contact with the case or frame of an appliance.	hocl	k hazard in the event that the hot conductor comes in		
	a. grounded	c.	neutral		
	b. grounding	d.	ungrounded		
 11.	push current through a wire but cannot fl	ow t	through the wire.		
	a. Amps	c.	Volts		
	b. Ohms	d.	Watts		

_____ 12. The letter _____ is used to represent voltage in algebraic formulas.

	a. F	c.	E			
	b. P	d.	L			
 13.	A(n) is the amount of resistance that allow	vs o	ne ampere of current to flow when the applied voltage is			
	one von.		ahm			
	a. coulomb	C.	onm tt			
	b. joure	a.	watt			
 14.	ed in a circuit.					
	a. Amperage	c.	Voltage			
	b. Ohms	d.	Wattage			
15.	Electrical energy must be changed or converted	l int	o some other form of energy before there can be .			
	a. amps	c.	volts			
	b. ohms	d.	watts			
16.	A is the amount of force required to raise	a oi	ne-pound weight one foot.			
	a. joule	c.	horsepower			
	b. foot-pound	d.	watt			
17.	7. The amount of electrical energy needed to produce one horsepower is watts.					
	a. 467	c.	746			
	b. 674	d.	647			
10						
 18.	A(n) is the amount of work done by one v	vatt	for one second.			
	a. ampere	C.	ohm			
	b. joule	d.	volt			
 19.	19. When using Ohm's Law to determine amperage, the formula you would use is					
	a. $I = R/E$	c.	I = E/R			
	b. $E = I/R$	d.	I = R/V			
20.	When using Ohm's Law to determine voltage, t	he f	formula you would use is .			
	a. $E = I \times R$	c.	$E = V \times R$			
	b. $E = V \times A$	d.	$E = V \times I$			