TEST BANK



ch02

Indica		nether the statement is true or false.
	1.	Static electricity is the release of an accumulated charge in some material or object.
	2.	Neutrons possess no charge and are said to be neutral.
	3.	Current electricity is the controlled movement of an electrical charge along the atoms of a conductor.
	4.	The pressure that the electric current exerts on its conductor is known as amperes.
	5.	A charge is that characteristic of a material which enables it to exert force on another material.
	6.	When current is manipulated to transmit information, it becomes a circuit.
	7.	A signal is a closed connection between an electric source and a load over which current may flow.
	8.	Charged particles either repel or attract each other without ever making physical contact.
	9.	Resistance is measured in volts.
	10.	In alternating current (AC), an electrical charge flows steadily in one direction over the conductor.
<i>true</i> .		A material over which electric current readily flows is known as a(n) <u>conductor</u> . Grounding is the use of a conductor to divert unused or potentially harmful charges to an insulator, where
	10	they will be stopped or absorbed.
	13.	The pressure that an electric current exerts is known as <u>amperes</u> .
	14.	The charge flowing through a wire each second is measured in <u>volts</u> .
	15.	Resistance is a material's opposition to electricity.
	10.	In <u>alternating current</u> , an electrical charge flows steadily in one direction over the conductor.
	17.	In <u>direct current</u> , the electrical charge flows in one direction first, then in the opposite direction, then back in the first direction
	18.	The term <u>frequency</u> refers to the number of cycles in a sine wave that are completed within a specified time frame
	19.	The distance between corresponding points on a cycle is called its <u>wavelength</u> .
	20.	<u>Current</u> electricity is the release of an accumulated charge in some material or object.

Multiple Choice

Identify the choice that best completes the statement or answers the question. The characteristic of a material that enables it to exert force on another material is known as: a. Charge c. Electrons b. Protons d. Neutrons 22. Which of the following are found at the center of an atom? a. Proton c. Neutron d. a and c only b. Charge 23. Which of the following is a release of an accumulated charge in some material or object? a. Electrostatic charges c. Static electricity b. Charge d. Current electricity 24. Because the charges inherent in electrons and protons are bound to balance each other through static electricity, these charges are also called: a. Current electricity c. Grounding b. Electrostatic charges d. Electric current 25. Which of the following carries a positive charge? a. Neutrons c. Protons b. Electrons d. None of the above 26. Which of the following refers to the controlled movement of an electrical charge? a. Current electricity c. Static electricity b. Electrostatic charges d. Signal 27. Which of the following is a closed connection between an electric source and a load over which current flows? a. Signal c. Conductor b. Circuit d. Grounding 28. When current is manipulated to transmit information, it becomes: a. Signal c. Conductor b. Circuit d. Static electricity 29. The material over which electric current readily flows is known as: c. Voltage a. Signal b. Circuit d. Conductor 30. The use of a conductor to divert unused or potentially harmful charges to an insulator, where they will be stopped or absorbed is referred to as: a. Resistance c. Grounding b. Voltage d. Circuit 31. The pressure that the electric current exerts on its conductor is known as: a. Voltage c. Hertz d. Ohms b. Amperes 32. Materials that do not allow electric current to flow easily are called: a. Volts c. Insulators b. Semiconductors d. Conductors The charge flowing through a wire each second is referred to as: a. Resistance Amperes b. Hertz Volts 34. A material's opposition to current is referred to as: a. Resistance c. Ohms b. Amperes d. Capacitance 35. Resistance is measured in:

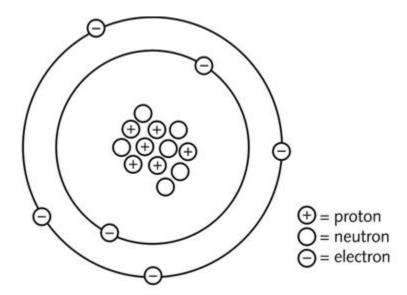
	a. Amperes	c.	Volts
	b. Hertz	d.	Ohms
 36.	Which of the following allows an electrical cha	rge	to flow steadily in one direction over a conductor?
	a. DC	c.	
	b. AC	d.	Frequency
 37.		rge	to flow in one direction first, then in the opposite
	direction, then back in the first direction?		
	a. DC b. AC	c.	Generator
20			Frequency
 38.	time frame?	cyc	les in a sine wave that are completed within a specified
	a. Generator	С	Cycle
	b. Frequency	d.	Oscillation
39.		ion	of a wave, beginning at its starting point, up to its
 37.	highest amplitude, down to its lowest amplitude		
	a. Cycle		Generator
	b. Frequency	d.	Oscillation
40.	Frequency is measured in:		
	a. Amperes	c.	Volts
	b. Amplitude	d.	Hertz
 41.	The distance between corresponding points on	а су	rcle is called its:
	a. Converter	c.	Capacitor
	b. Wavelength	d.	Capacitance
 42.	A device that changes AC to DC is referred to a	as:	
	a. Converter	c.	Circuit
	b. Generator	d.	Conductor
 43.	The ability for an electric circuit to accumulate	or s	
	a. Farads	c.	Capacitor
	b. Capacitance	d.	Signal
 44.	Which of the following stores an electrical char	_	
	a. Circuit	C.	Generator
	b. Converter	d.	Capacitor
 45.	When electrons move, they produce:		Electromeanet
	a. Electromagnetismb. Magnetic field	d.	Electromagnet Inductor
16			
 46.	The magnetic effect produced by an electric cur a. Electromagnetism		t is known as: Capacitor
	b. Magnetic field	d.	Inductance
47.	When used in an electric circuit, a coil of wire i		
 47.	a. Electromagnet	c.	Converter
	b. Transformer	d.	Inductor
48.			ontains two electromagnetic coils and transfers electric
 40.	energy from one coil to another?	at C	situins two electromagnetic constant transfers electric
	a. Converter	c.	Transformer
	b. Circuit	d.	Electromagnet
49.	Which of the following measures capacitance?		-
	a. Hertz	c.	Farad
	b. Volt	d.	Henry

	50.	Which of the following measures inductance?		
		a. Volt		Henry
		b. Ampere	d.	Watt
	51.	Which of the following measures resistance?		W
		a. Voltb. Ampere	c. d.	Watt Ohm
	52.	Which of the following measures Power?	u.	Oilli
	32.	a. Volts	c.	Farad
		b. Watt	d.	
	53.	Which of the following measures frequency?		
		a. Watt	c.	Hertz
		b. Henry	d.	Ohm
	54.	Which of the following is a component that cor		
		a. Passive device		Diode
		b. Active device		Transistor
	55.	An electronic component that allows current to		•
		a. Transistorb. Diode		Resistor Circuit
		o. Diode	u.	Circuit
Yes/N				
Indica	ate wi	hether you agree with the statement.		
	56.	Are protons found at the center of an atom?		
	57.	Is the term conductor used to describe a materia	al ov	ver which current flows?
	58.	Is voltage measured in amperes?		
	59.	Can you use the words current electricity and e	lect	ric current interchangeably?
	60.	Is resistance measured in volts?		
	61.	Does the term capacitance refer to the number of specified time frame?	of cy	ycles in a sine wave that are completed within a
	62.	Are electrons found at the center of an atom?		
	63.	Does the term electromagnetic refer to a wave t forces?	hat	contains a combination of electric and magnetic
	64.	When current is manipulated to transmit inform	atio	on, does it become a signal?
	65.	Does a voltmeter measure the resistance of a cir	rcui	t?
C	1 4.			
Comp Comp	-	n each statement.		
	66	$\Delta(n)$ is the characteristic	etic	of a material that enables it to exert force on another
	00.	material.	, iiC	or a material that chaoles it to exert force on another
	67		011***	nulated charge in some material or object.
	67.	is the release of all ac	cuii.	iuraieu charge in some maierrar or object.

	68.	Because the charges inherent in electrons and protons are bound to balance each other through static electricity, these charges are also called						
	69.	is the controlled movement of an electrical charge along the atoms of a conductor.						
	70.	0. A(n) is a closed connection between an electric source and a load over current may flow.						
	71.	A material over which electric current readily flows is known as a(n)						
	72. When current is manipulated to transmit information, it becomes a(n)							
	73.	is the use of a conductor to divert unused or potentially harmful charges to an insulator, where they will be stopped or absorbed.						
	74.	The pressure that an electric current exerts on its conductor is known as						
	75.	is a material's opposition to electric current.						
Matc	hing							
		Match each correct item with the statement below. a. Static electricity f. Circuit b. Grounding g. Insulators c. Voltage h. Neurons d. Resistance i. Amperes e. Conductor j. Signal						
	77. 78. 79. 80. 81. 82. 83. 84.	Possess no charge and are said to be neutral. The release of an accumulated charge in some material or object. A closed connection between an electric source and a load over which current may flow. When current is manipulated to transmit information. A material over which electric current readily flows. The use of a conductor to divert unused or potentially harmful charges to an insulator, where they will be stopped or fully absorbed. The pressure that the electric current exerts on it conductor. Materials that do not allow electric current to flow easily. A material's opposition to electric current. Measures current.						
Short	Ans	wer						
	86.	The release of an accumulated charge in some material or object is called:						
	87.	What is the name given to a closed connection between an electric source and a load over which current flows?						
	88.	When current is manipulated to transmit information, what is the term used to describe it?						
	89.	What is the term used to describe a material over which electric current readily flows?						

90. What is commonly equated to the strength of an electric current?

- 91. What is the term used to refer to a material's opposition to current?
- 92. What is resistance measured in?



- 93. According to the figure above, what is found at the center of an atom?
- 94. What term is used to refer to the number of cycles in a sine wave that are completed within a specified time frame?

ch02

Answer Section

TRUE/FALSE

1.	ANS:	T	PTS:	1	REF:	41
2.	ANS:	T	PTS:	1	REF:	40
3.	ANS:	T	PTS:	1	REF:	41
4.	ANS:	F	PTS:	1	REF:	43
5.	ANS:	T	PTS:	1	REF:	40
6.	ANS:	F	PTS:	1	REF:	42
7.	ANS:	F	PTS:	1	REF:	42
8.	ANS:	T	PTS:	1	REF:	40
9.	ANS:	F	PTS:	1	REF:	44
10.	ANS:	F	PTS:	1	REF:	47

MODIFIED TRUE/FALSE

	ANS: T ANS: T		PTS: PTS:	_	REF: 42 REF: 42
13.	ANS: F, voltage				
14.	PTS: 1 ANS: F, amperes	REF: 43			
	PTS: 1	REF: 44			
15.	ANS: T		PTS:	1	REF: 44
16.	ANS: F direct current DC				

PTS: 1 REF: 47 17. ANS: F

alternating current

AC

PTS: 1 REF: 48

18. ANS: T PTS: 1 REF: 48
19. ANS: T PTS: 1 REF: 49

20. ANS: F, Static

PTS: 1 REF: 41

MULTIPLE CHOICE

21. ANS: A PTS: 1 REF: 40

22.	ANS:	D	PTS:	1	REF:	40
23.	ANS:	C	PTS:	1	REF:	41
24.	ANS:	В	PTS:	1	REF:	41
25.	ANS:	C	PTS:	1	REF:	40
26.	ANS:	A	PTS:	1	REF:	41
27.	ANS:	В	PTS:	1	REF:	42
28.	ANS:	A	PTS:	1	REF:	42
29.	ANS:	D	PTS:	1	REF:	42
30.	ANS:	C	PTS:	1	REF:	42
31.	ANS:	A	PTS:	1	REF:	43
32.	ANS:	C	PTS:	1	REF:	43
33.	ANS:	C	PTS:	1	REF:	44
34.	ANS:	A	PTS:	1	REF:	44
35.	ANS:	D	PTS:	1	REF:	45
36.	ANS:	A	PTS:	1	REF:	47
37.	ANS:	В	PTS:	1	REF:	48
38.	ANS:	В	PTS:	1	REF:	48
39.	ANS:	A	PTS:	1	REF:	48
40.	ANS:	D	PTS:	1	REF:	48
41.	ANS:	В	PTS:	1	REF:	49
42.	ANS:	A	PTS:	1	REF:	49
43.	ANS:	В	PTS:	1	REF:	50
44.	ANS:	D	PTS:	1	REF:	50
45.	ANS:	В	PTS:	1	REF:	53
46.	ANS:	A	PTS:	1	REF:	53
47.	ANS:	D	PTS:	1	REF:	54
48.	ANS:	C	PTS:	1	REF:	56
49.	ANS:	C	PTS:	1	REF:	59
50.	ANS:	C	PTS:	1	REF:	59
51.	ANS:	D	PTS:	1	REF:	59
52.	ANS:	В	PTS:	1	REF:	59
53.	ANS:	C	PTS:	1	REF:	59
54.	ANS:	A	PTS:	1	REF:	61
55.	ANS:	В	PTS:	1	REF:	63

YES/NO

56.	ANS:	Y	PTS:	1	REF:	40
57.	ANS:	Y	PTS:	1	REF:	42
58.	ANS:	N	PTS:	1	REF:	43
59.	ANS:	Y	PTS:	1	REF:	41
60.	ANS:	N	PTS:	1	REF:	45
61.	ANS:	N	PTS:	1	REF:	48
62.	ANS:	N	PTS:	1	REF:	40
63.	ANS:	Y	PTS:	1	REF:	56
64	ANS.	Y	$PTS \cdot$	1	REF.	42

05. 11 (b). 1 (c)	65.	ANS: N	PTS: 1	REF: 60
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COMPLETION

66. ANS: charge

PTS: 1 REF: 40

67. ANS: Static electricity

PTS: 1 REF: 41

68. ANS: electrostatic charges

PTS: 1 REF: 41

69. ANS:

Current electricity
Electric current

PTS: 1 REF: 41

70. ANS: circuit

PTS: 1 REF: 42

71. ANS: conductor

PTS: 1 REF: 42

72. ANS: signal

PTS: 1 REF: 42

73. ANS: Grounding

PTS: 1 REF: 42

74. ANS: voltage

PTS: 1 REF: 43

75. ANS: Resistance

PTS: 1 REF: 44

MATCHING

76.	ANS:	H	PTS:	1	REF:	40
77.	ANS:	A	PTS:	1	REF:	41
78.	ANS:	F	PTS:	1	REF:	42
79.	ANS:	J	PTS:	1	REF:	42
80.	ANS:	E	PTS:	1	REF:	42
81.	ANS:	В	PTS:	1	REF:	42
82.	ANS:	C	PTS:	1	REF:	43
83.	ANS:	G	PTS:	1	REF:	43
84.	ANS:	D	PTS:	1	REF:	44

85. ANS: I PTS: 1 REF: 44

SHORT ANSWER

86. ANS:

Static electricity

PTS: 1 REF: 41

87. ANS: Circuit

PTS: 1 REF: 42

88. ANS: Signal

PTS: 1 REF: 42

89. ANS: Conductor

PTS: 1 REF: 42

90. ANS: Voltage

PTS: 1 REF: 43

91. ANS: Resistance

PTS: 1 REF: 44

92. ANS: Ohms

PTS: 1 REF: 45

93. ANS:

Protons and neutrons

PTS: 1 REF: 40

94. ANS: Frequency

PTS: 1 REF: 48