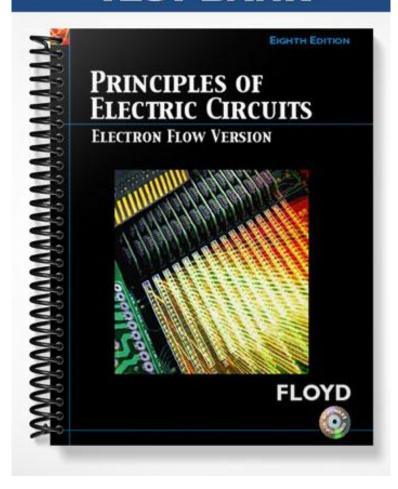
TEST BANK



the same number of protons and alled the <i>valence</i> shell. ectrons.	2) 3) 4) 5) 6)	
ectrons. lectrons, each with an opposite ctron is known as ionization.	4) 5) 6)	
ectrons. lectrons, each with an opposite ctron is known as ionization.	5)	
lectrons, each with an opposite	6)	
ctron is known as ionization.	,	
	7)	
	7)	
8) Valence electrons are tightly bound in insulators.		
9) Current value depends on the amount of charge moving past a point in a unit of time.		
two points is called voltage.	10)	
native that best completes the statem	ent or	
list is.	11\	
	11)	
D) Germanium		
ectrons are classified as:	12)	
	/	
D) semiconductors		
ured in:	13)	
B) amperes		
D) free electrons		
	14)	
nucleus		
he nucleus		
n the valence shell		
he valence shell		
the following?	15)	
B) potential difference		
D) all of the above		
ltage source?	16)	
	in insulators. Int of charge moving past a point in It two points is called voltage. Inative that best completes the statem list is: B) Silicon D) Germanium ectrons are classified as: B) insulators D) semiconductors ured in: B) amperes D) free electrons nucleus he nucleus he nucleus he the valence shell the valence shell the following? B) potential difference	

A) semiconductor C) battery		B) solar cell D) generator		
17) The rate of flow of fr A) current	ree electrons in a c B) coulomb		is called: D) voltage	17)
18) Five coulombs of cha		oint in 0.5 seconds.	How many	18)
A) 5 A	B) 15 A	C) 10 A	D) 20 A	
19) The opposition to cu	rrent is called:			19)
A) resistanceC) ohms		B) conductance D) insulators		
20) The typical resistor to A) carbon-compose B) wire wound C) metal oxide D) metal film E) carbon film		ower applications	would be the:	20)
21) A resistor coded with		k-Gold bands respe	ectively, would	21)
be of what value and	I tolerance?	B) 270 O . / F9/		
A) 27 Ω +/- 5%		B) 270 Ω +/- 5%		
C) 0.27 Ω +/- 5%		D) 2.7 Ω +/- 5%		
22) A potentiometer is a				22)
A) voltage-control		B) variable resis	tor	
C) 3-terminal devi	ice	D) all of the abo	ve	
23) Which of the followi	ng is NOT needed	l to form an electric	circuit?	23)
A) load		B) voltage sourc	ce	
C) conductive path	h for current	D) switch		
24) To measure current	with an ammeter,	connect the ammet	ter:	24)
A) across the load		B) across the vo	ltage source	
C) in the current p	ath	D) across the res	sistance	
25) DMM's are the most instrument because of A) greater ease of B) better accuracy C) more functions D) greater reliabilities E) all of the above	of: reading provided ity	of electronic meas	uring	25)
26) Determine the tolera	nce and resistance			26)
A) 47 Ω +/- 5%		B) 47 kΩ +/- 5%		
C) 470 kΩ +/- 5%		D) 4700 Ω +/- 5%	o .	
27) A rheostat is a:				27)
A) voltage-control	device	B) 3-terminal de	evice	

-,	variable resisto	r	D) all of the above	
28) What volts?		m resolution of a 3	3 1/2-digit DMM when measuring	28)
	0.1 V	B) 0.0001 V	C) 0.01 V D) 0.001 V	
rotatio adjust	on from the low	_	otentiometer is set at 3/4 of full What is the resistance between the erminal? C) 750Ω D) 500Ω	29)
		,	5 tolerance, what color code	30)
-	d you look for?		tolerance, what color code	30)
A) l	BLU-BRN-BL-C	GOLD	B) GRN-BRN-BLK-GOLD	
C) (GRN-BLK-GOL	.D-GOLD	D) GRN-BRN-GOLD-GOLD	
31) The notation	egative and pos	sitive charge symb	pols are assigned (in that order) to	31)
A) a	atom and nucle	us	B) electron and element	
C) _]	proton and elec	tron	D) electron and proton	
A) a B) a C) a	atomic number electrical stabili	ectrical stability	e the:	32)
2) (areinieur stabili	ly only		
	33) What is the most commonly used conductor in electronics?			
		nmonly used cond		33)
A) §	is the most con gold aluminum	nmonly used cond	luctor in electronics? B) copper D) silver	33)
A) § C) a	gold aluminum	·	B) copper	34)
A) § C) a 34) A con charge A) §	gold aluminum ductor has 3.12 e is this? 50 coulombs	·	B) copper D) silver as pass through it. How much B) 20 coulombs	,
A) § C) a 34) A con charge A) §	gold aluminum ductor has 3.12 e is this?	·	B) copper D) silver ns pass through it. How much	,
A) § C) a 34) A con charge A) § C) 3 35) The cathat cathat catharacath	gold aluminum ductor has 3.12 e is this? 50 coulombs 3.12 coulombs apacity of a bate	x 10 ²⁰ electron tery cell is measur over time.	B) copper D) silver as pass through it. How much B) 20 coulombs D) 62.4 coulombs red by the amount of	,
A) § C) a 34) A con charge A) § C) 3 35) The cathat cathat catharacath	gold aluminum ductor has 3.12 e is this? 50 coulombs 3.12 coulombs	x 10 ²⁰ electron tery cell is measur over time.	B) copper D) silver as pass through it. How much B) 20 coulombs D) 62.4 coulombs	34)
A) § C) a 34) A con charge A) § C) 3 35) The cathat cathat cathat (a) § 3 36) If a flu	gold aluminum ductor has 3.12 e is this? 50 coulombs 3.12 coulombs apacity of a bate an be supplied oules	x 10 ²⁰ electron tery cell is measur over time. B) voltage	B) copper D) silver as pass through it. How much B) 20 coulombs D) 62.4 coulombs red by the amount of	34)
A) § C) a 34) A concharge A) § C) 3 35) The cathat catha	gold aluminum ductor has 3.12 e is this? 50 coulombs 3.12 coulombs apacity of a bate an be supplied oules aid system is coupond to a: pattery	x 10 ²⁰ electron tery cell is measur over time. B) voltage	B) copper D) silver In pass through it. How much B) 20 coulombs D) 62.4 coulombs The determinant of C) coulomb D) current	34)
A) § C) a 34) A concharge A) § C) 3 35) The cathat catha	gold aluminum ductor has 3.12 e is this? 50 coulombs 3.12 coulombs apacity of a battern be supplied oules aid system is coupond to a:	x 10 ²⁰ electron tery cell is measur over time. B) voltage	B) copper D) silver as pass through it. How much B) 20 coulombs D) 62.4 coulombs ed by the amount of C) coulomb D) current etrical system, the fluid pump will	34)
A) § C) a 34) A concharge A) § C) 3 35) The cathat catha	gold aluminum ductor has 3.12 e is this? 50 coulombs 3.12 coulombs apacity of a batten be supplied oules aid system is coupond to a: battery generator	x 10 ²⁰ electron tery cell is measur over time. B) voltage	B) copper D) silver as pass through it. How much B) 20 coulombs D) 62.4 coulombs ed by the amount of C) coulomb D) current etrical system, the fluid pump will B) conductor D) both A and C	34) 35) 36)
A) § C) a 34) A concharge A) 5 C) 3 35) The cathat cathat cathat cathat cathat corres A) If a fluctures C) § 37) The form	gold aluminum ductor has 3.12 e is this? 50 coulombs 3.12 coulombs apacity of a batten be supplied oules aid system is coupond to a: battery generator	tery cell is measur over time. B) voltage	B) copper D) silver as pass through it. How much B) 20 coulombs D) 62.4 coulombs ed by the amount of C) coulomb D) current etrical system, the fluid pump will B) conductor D) both A and C	34)
A) § C) a 34) A concharge A) § C) a 35) The cathat ca A) j 36) If a fluctorres A) l C) § 37) The for	gold aluminum ductor has 3.12 e is this? 50 coulombs 3.12 coulombs apacity of a bate an be supplied oules aid system is co pond to a: battery generator orce that causes	tery cell is measur over time. B) voltage	B) copper D) silver In pass through it. How much B) 20 coulombs D) 62.4 coulombs The detailed by the amount of C) coulomb D) current Coulomb D) current Coulomb Ctrical system, the fluid pump will B) conductor D) both A and C	34) 35) 36)
A) § C) a 34) A concharge A) § C) a 35) The cathat ca A) j 36) If a fluctorres A) l C) § 37) The for	gold aluminum ductor has 3.12 e is this? 50 coulombs 3.12 coulombs apacity of a bate an be supplied oules aid system is co pond to a: battery generator orce that causes voltage resistance	tery cell is measur over time. B) voltage	B) copper D) silver as pass through it. How much B) 20 coulombs D) 62.4 coulombs red by the amount of C) coulomb D) current ctrical system, the fluid pump will B) conductor D) both A and C ons to move is: B) current	34) 35) 36)

	time				
391	Electrical current	is defined as the n	novement of which	subatomic	39)
particles?			no verment or writer		· · · · · · · · · · · · · · · · · · ·
	A) protons		B) neutrons		
	C) molecules		D) electrons		
40)	Siemens is a unit	for:			40)
	A) current		B) resistance		
	C) voltage		D) conductan	ce	
41)	would	d NOT increase th	e resistance of the v	vire.	41)
	A) A smaller di	iameter wire	B) Winding p	attern	
	C) A lower AW	/G size wire	D) Use in a ho	otter environment	
42)	Which statement	is NOT true?			42)
	A) A rheostat is	s a two terminal d	evice.		
	B) A potention	neter can be used a	as a rheostat.		
	C) A rheostat c	an be used as a po	tentiometer.		
	D) A potention	neter is a three terr	ninal device.		
43)	The fifth band in	a precision resisto	r represents the:		43)
	A) tolerance	-	B) multiplier		
	C) reliability		D) failure rate		
44)	A green fifth-ban	d on a precision re	esistor indicates a to	lerance value of	44)
	±:	•			•
	A) 2%	B) 0.25%	C) 1%	D) 0.5%	
45)	What is the tolera	nce of a resistor m	nanufactured to a m	inimum value of	45)
ŕ		maximum value o			,
	A) 1%	B) 2%	C) 20%	D) 10%	
46)	What is the resist	ance value and tol	erance with color b	ands of gray, red,	46)
	black, and gold?				
	A) 820 ohms, ±	10%	B) 82 ohms, ±	10%	
	C) 82 ohms, ± 5	5%	D) 820 ohms,	± 5%	
47)	% Д-				47)
ŕ	The switch shows	nis a·			-
	A) DPDT	B) DPST	C) SPDT	D) SPST	
	11) DI DI	<i>D</i>) <i>D</i> 131	C) 51 D 1	<i>D)</i> 51 51	
48)		-	ctric circuits and ha	s a potential of	48)
		spect to other poin			
	A) source volta	ge	B) 0 volts	, abovo	
	C) an electron		D) none of the	e above	
49)			is called the ground		49)
	_		a single electron in		
	A) highest, mos		B) lowest, mo		
	C) lowest, least	stable	D) lowest, leas	st stable	

D) voltage \times time

C) coulombs

50) Which is NOT one of the three categories electronics?	50)	
A) semiconductors	B) insulators	
C) conductors	D) crystals	
51) Which of the following is a true state	ment?	51)
A) Collisions do not cause electror	ns to lose some of their energy.	
B) The property of a material to op	ppose current flow is called work.	
C) The more collisions, the more re		
D) The more collisions, the more e	asier the flow of electrons.	
52) Which of the following is a true state	ment?	52)
A) Voltage is not determined by ch	narge.	
B) Voltage is not determined by w		
C) Voltage is charge (Q) divided b		
D) Work is the product of voltage	(V) and charge (Q).	
53) Voltage can be produced by means o	f :	53)
A) light energy		
B) chemical energy		
C) magnetic energy combined with	h mechanical motion	
D) all of the above		
54) Which of the following is NOT a true	e statement?	54)
A) A lead-acid battery is a seconda	ary (rechargeable) battery.	
B) Flat, round batteries are often c	alled button or coin batteries.	
C) Batteries are usually classified a	according to their chemical makeup.	
D) AAA batteries are physically la	rger than AA batteries.	
55) Transistors used as switches		55)
A) Can be controlled by voltage		
B) Are often called semiconductor	switches.	
C) Can open and close a circuit pa	th.	
D) all of the above		
E) none of the above		
56) Resistance of the human body averag	ges between	56)
A) zero ohms and 100K ohms	B) 10K ohms and 50K ohms	
C) 90K ohms and 100K ohms	D) 50K ohms and 100K ohms	

- 1) TRUE
- 2) FALSE
- 3) TRUE
- 4) TRUE
- 5) FALSE
- 6) FALSE
- 7) FALSE
- 8) TRUE
- 9) TRUE
- 10) FALSE
- 11) A
- 12) B
- 13) C
- 14) D
- 15) D
- 16) A
- 17) A
- 18) C
- 19) A
- 20) B
- 21) A
- 22) D
- 23) D
- 24) C
- 25) E
- 26) C
- 27) C
- 28) D
- 29) B
- 30) D
- 31) D
- 32) C
- 33) B
- 34) A
- 35) D
- 36) D
- 37) A
- 38) C
- 39) D
- 40) D
- 41) C
- 42) C
- 43) A
- 44) D 45) A
- 46) C
- 47) C
- 48) B
- 49) B
- 50) D
- 51) C

- 52) D
- 53) D
- 54) D
- 55) D
- 56) B