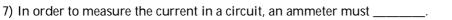
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Exam	adowinoad.com/product/deac-rundar	mentals-a-systems-approach-1st-edition-floyo	1-test-ballk/
Name			
MULTIPLE CHOICE. C	Choose the one alternative that best co	mpletes the statement or answers the question.	
A) can only B) do not m C) make up D) will allow	th, and a load be an open circuit nake up a complete circuit o a basic circuit w current to flow if the switch is open		1)
Answer: C Explanation:	A) B) C) D)		
2) Which unit of A) a volt	charge contains 6.25 × 10 ¹⁸ electrons? B) an ampere	C) a coulomb D) a joule	2)
Answer: C Explanation:	A) B) C) D)		
	vill measure and	B) frequency, voltage, current	3)
C) voltage,	frequency, resistance current, resistance	D) voltage, current, capacitance	
Answer: C Explanation:	A) B) C) D)		
	_	connections of a circuit's components?	4)
A) a block of C) a schema Answer: C Explanation:	A) B) C) D)	B) a pictorial diagram D) an electrical diagram	
5) A common typ A) carbon fi	oe of resistors are:	B) carbon-composition.	5)
C) metal fili Answer: B		D) wirewound.	
Explanation:	A) B) C) D)		

6) On a resistor with four bands of color cod	le the fourth hand represents:	6)
A) the tolerance percentage. C) the wattage rating.	B) the multiplier value. D) the voltage rating.	o,
Answer: A Explanation: A) B)		



7) _____

- A) be placed so the current must pass through the meter
 - B) be placed across the source

C) D)

- C) be placed across the load
- D) all of these

Answer: A

Explanation: A)

- B)
- C)
- D)

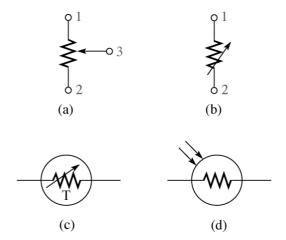


Figure 2-3

- 8) What does the schematic symbol (b) represent in Figure 2-3?

 8)
 - A) photoconductive cell

B) rheostat

C) thermistor

D) potentiometer

Answer: B

Explanation: A)

- , т, В)
- C)
- D)

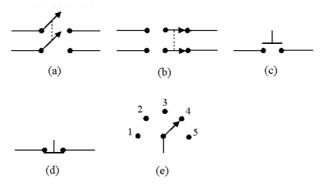


Figure 2-1

9) Which switch in Figure 2-1 could be used to simultaneously open or simultaneously close two circuits?

9)

A) graph (a)

B) graph (b)

C) graph (c)

D) graph (d)

E) graph (e)

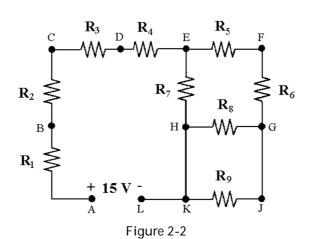
Answer: A

Explanation: A)

B)

C)

D) E)



10) In Figure 2-2, the voltage VFG is the same as ______

10)

A) V_{R6}

B) V_R9

C) V_{R7}

D) V_{R8}

Answer: A

Explanation: A)

B)

C)

D)

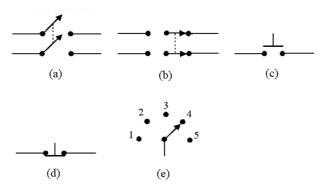


Figure 2-1

- 11) Identify the *Rotary* switch in Figure 2-1.
 - A) graph (a)
- B) graph (b)
- C) graph (c)
- D) graph (d)
- E) graph (e)

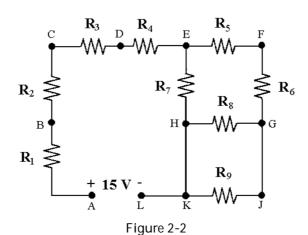
11)

12) ____

Answer: E

Explanation: A)

- B)
- C)
- D) E)



- 12) To measure the current that flows through R₆ in Figure 2-2, the circuit must be opened and the ammeter placed at point _____.
 - A) F

B) G

C) E

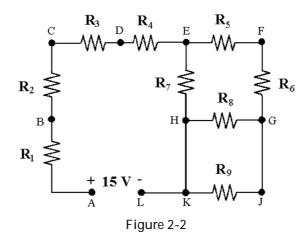
D) H

Answer: A

Explanation: A)

- B)
- C)
- D)

		that has many free electro			13)
A) insulator	•	B) conductor	C) poor conductor	D) semiconductor	
Answer: B					
Explanation:	A)				
	B)				
	C) D)				
11) If the measure	d circuit curr	ent is zero, it is likely that	the		14)
	e is very low	crit is zero, it is likely that	B) circuit voltage is very	hiah	
C) voltage i	-		D) circuit has a short	9	
Answer: C			·		
Explanation:	A)				
	B)				
	C)				
	D)				
15) Which of the f	ollowing is no	ot a type of variable resist	or?		15)
A) potention			B) photoconductive cell		
C) thermiste	or		D) All are types of varial	ble resistors.	
Answer: D					
Explanation:	A)				
	B) C)				
	D)				
	_,				
	_	et, orange, and gold band			16)
A) 47 k Ω ± $^{\circ}$	10%	B) 47 M Ω ± 10%	C) $4.7 \text{ k}\Omega \pm 10\%$	D) 47 k Ω ± 5%	
Answer: D					
Explanation:	A)				
	B)				
	C) D)				
	<i>D</i>)				



17) In Figure 2-2, if you place a voltmeter's red lead on point E and its black lead on point H, you will

eme	asum
A)	VR7

B) VR6

C) V_{R5}

D) V_{R4}

Answer: A

Explanation: A)

B)

C)

D)

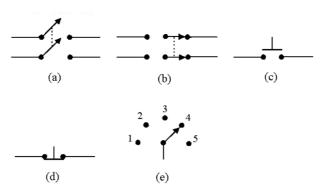


Figure 2-1

18) Identify the *DPDT* switch in Figure 2-1.

A) graph (a)

B) graph (b)

C) graph (c)

D) graph (d)

18) _ E) graph (e)

17)

Answer: B

Explanation: A)

B)

C)

D)

E)

				ol a light and a fan at		19)
A) graph (a Answer: A Explanation:) А) В)	B) graph (b)	C) graph (c)	D) graph (d)	E) graph (e)	
	C) D) E)					
A) potentioB) potentioC) potentio	meters u meters aı	e used to vary vol	als, while rheostats u tages, while rheosta	usually use only two ts vary currents. e rheostats usually u		20)
tapers. D) all of the	ese.					
Answer: D	a >					
Explanation:	A) B) C) D)					
		e. rapn (e)				
		(a)	(b)	(c)		
		1	2 3 4 1 5			
		(d)	(e)			
			Figure 2-1			
21) Identify the D		•				21)
A) graph (a Answer: A)	B) graph (b)	C) graph (c)	D) graph (d)	E) graph (e)	
Explanation:	A) B)					
	C)					
	D) E)					
		is color coded				22)
A) brown, b C) brown, g	_			own, black, yellow, go ck, brown, yellow, si		
Answer: A						
Explanation:	A) B) C)					
	D)					

23) A downside of using deep-cycle batteries is						
A) they are		B) they are expensive				
	uire regular maintenance	D) all of the above				
Answer: D	A .\					
Explanation:	A) B)					
	C)					
	D)					
	·					
	with five bands of color code, the fifth b		24)			
·	ance in percentage of value. tor is a precision resistor.	B) the reliability in percentage of failure.D) all of these.				
Answer: A	•					
Explanation:	A)					
	B)					
	C)					
	D)					
25) Interpret the f	ollowing mixed numbers and letters 3N	M3 on a resistor to the correct resistance of:	25)			
A) 330 Kilo		C) 33 Kilohms. D) 3300 Kilohms.	, <u> </u>			
Answer: D						
Explanation:	A)					
	B)					
	C)					
	D)					
26) If a resistor is	color coded with orange, orange, orang	ge and silver bands, the resistance equals	26)			
		and the upper tolerance limit equals				
·	9,700 Ω , 36,300 Ω	B) 33 k Ω , 32,670 Ω , 33,330 Ω				
•	6,400 Ω, 39,600 Ω	D) 33 k Ω , 31,350 Ω , 34,650 Ω				
Answer: A						
Explanation:	A)					
	B)					
	C) D)					
D)						

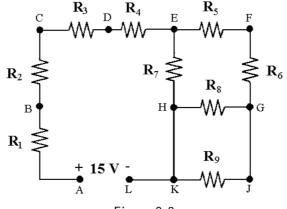
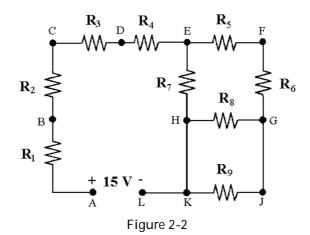


Figure 2-2

27) III Figure 2-2,	a voitifietei piaced aci oss poii	its C and D will measure _	·	21)
A) V _{R4}	B) V _{R3}	C) V _{R1}	D) V _{R2}	
Answer: B				
Explanation:	A)			
	B)			
	C)			
	D)			
28) Voltage is	·			28)
. •	osition to the flow of current			·
B) the force	that exists between charged p	articles		
•	that causes water to flow			
D) the mov	ement of free electrons			
Answer: B				
Explanation:	A)			
	B)			
	C)			
	D)			
29) An ohmmeter	should			29)
A) be conne	ected across a circuit with the p	ower on		
B) be place	d across the resistor after the re	esistor has been disconnect	ted from the circuit	
· ·	polarity carefully checked bef			
D) be insert	ed into the circuit so the currer	nt flows through it		
Answer: B				
Explanation:	A)			
	B)			
	C)			
	D)			



30) In Figure 2-2,	the voltage	VGH is the same as _			30)
A) V _{R5}		B) V _{R7}	C) V _{R6}	D) V _R 9	
Answer: D Explanation:	A) B) C) D)				
31) In the Americ area of the wi		uge sizes, as the nume	rical value of AWG goes	higher, the cross sectional	31)
A) increase: Answer: B Explanation:	s. A) B)	B) decreases.	C) doubles.	D) halves.	
	C) D)				
 32) Every electrical circuit must contain A) a battery, a path and a switch B) a battery, a resistor and a capacitor C) a source, a load and a resistor D) a source, a load and a path 				32)	
Answer: D Explanation:	A) B) C) D)				
			witch in a circuit will be:		33)
	ied voltage. pplied volta		B) unpredictable.D) 0 V.		
Answer: A Explanation:	A) B) C) D)				

34) The opposition to the flow of current is called					34)
A) capacita	ance	B) voltage	C) current	D) resistance	
Answer: D Explanation:	A) B) C) D)				
35) If a resistor ed	quals 1.2 Ω ±	5%, its color code is			35)
· ·	black, red, go red, gold, go		B) brown, red, silv D) brown, black, g		
Answer: C					
Explanation:	A) B) C) D)				
B) can pro	duce a high- mical reaction	ing two wires of diffresistance connection			36)
Answer: D	۵)				
Explanation:	A) B) C) D)				
		sed for high power a	applications?		37)
A) surfaceC) film	mount		B) wire wound D) carbon composi	ition	
Answer: B Explanation:	A) B) C) D)				

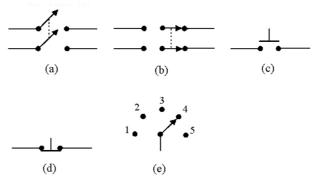


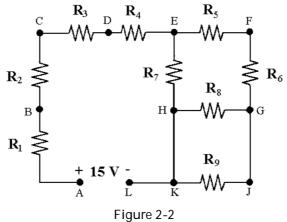
Figure 2-1

38) Which switch in Figure 2-1 is usually used to control a doorbell?					38)
A) graph (a)	B) graph (b)	C) graph (c)	D) graph (d)	E) graph (e)	
Answer: C					
Explanation: A	.)				
В)				
C					
D					
E)				
39) Identify the <i>Norm</i>	ally Closed Push Button	switch in Figure 2-	1.		39)
A) graph (a)	B) graph (b)	C) graph (c)	D) graph (d)	E) graph (e)	
Answer: D					
Explanation: A	.)				
В)				
C)				
D	•				
E)				
40) A resistor with or	ange, orange, red and g	old bands has a va	lue and tolerance of		40)
A) 33 kΩ ±10%) 3.3 kΩ ±5%	

Answer: D Explanation:

A)

B) C) D)



41) In Figure 2-2, the voltage VCE is the same as __

A) V_{R5}

- B) V_{R4} + V_{R5}
- C) V_{R3} + V_{R4}
- D) V_{R6}

41)

42)

Answer: C

- Explanation: A)
 - B)
 - C)
 - D)

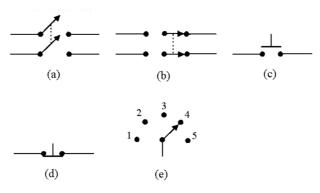


Figure 2-1

42) Which switch in Figure 2-1 could be used to open a circuit momentarily?

- A) graph (a)
- B) graph (b)
- C) graph (c)
- D) graph (d)
- E) graph (e)

Answer: D

- Explanation: A)
 - B)
 - C)
 - D)
 - E)

43) If a resistor is color coded with red, red, orange and silver bands, the resistance equals,					
the lower tolerance limit equals, and the upper tolerance limit equals					
A) 22 kΩ, 2	1.5 kΩ, 22.4 kΩ	2	B) 22 k Ω , 17.6 k Ω , 26.4 k Ω		
C) 22 kΩ, 1	9.8 kΩ, 24.2 kΩ	2	D) 22 k Ω , 20.9 k Ω , 23.1 k Ω		
Answer: C					
Explanation:	A)				
·	В)				
	C)				
	D)				
44) A m impossible m i		ı.		4.4)	
44) An insulator i		ın	D) very few free electrons	44)	
A) all free e			B) very few free electrons		
C) some fre	e electrons		D) very many free electrons		
Answer: B					
Explanation:	A)				
	B)				
	C)				
	D)				
45) A resistor wit	h vellow, violet	. orange and silver b	ands equals	45)	
A) 47 MΩ ±	-	B) 4.7 kΩ ± 10%	C) 47 k Ω ± 5% D) 47 k Ω ± 10%		
Answer: D					
Explanation:	A)				
	B)				
	C)				
	D)				
		hen taking voltage m	easurements with an analog meter versus a	46)	
digital meter?		lo on the display			
	ent of the scale	lle on the display			
	ne negative lead	l is placed			
•	· ·	ing the measurement	•		
	ocedure in taki	ing the measurement			
Answer: A	Δ)				
Explanation:	A)				
	B)				
	C)				
	D)				

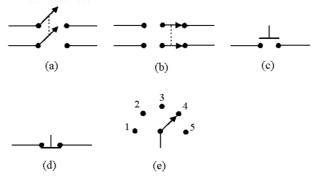


Figure 2-1

 47) The Rotary switch in Figure 2-1 is most likely to be used as A) a selector for different voltages in a power supply. B) a range selector switch in an analog voltmeter. C) an old manual TV channel selector. D) all of the above 						47)
Answer: D						
Explanation:	A) B) C) D)					
48) Which switch i	n Figure	e 2-1 could be used	to switch two inputs	to different output po	ositions?	48)
A) graph (a)		B) graph (b)	C) graph (c)	D) graph (d)	E) graph (e)	
Answer: B						
Explanation:	A) B) C) D) E)					
49) To measure a d	circuit's s	source voltage, the	voltmeter must	·		49)
A) have the	red lead	towards the negati	ve side of the source			
B) be placed						
C) be placed in series in the circuit						

D) have the black lead towards the positive side of the source

Answer: B Explanation:

A)

B) C) D)

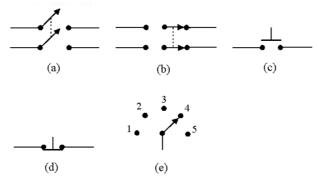


Figure 2-1

50) Identify the Normally Open Push Button switch in Figure 2-1.						50)	
A) graph (a))	B) graph (b)	C) graph (c)	D) graph (d)	E) graph (e)		_
Answer: C							
Explanation:	A)						
•	B)						
	C)						
	D)						
	E)						
E1) Interpret the fe	allovvino	ı miyad numbars ar	ad latters 1D7 or	a resistor to the correc	et resistance of:	51)	
A) 4.7 ohms	_	B) 4.7 Megol		47 ohms.	D) 4.7 Kilohms.	51)	_
Answer: A			·		•		
Explanation:	A)						
•	В)						
	C)						
	D)						
E2) A conductor is	a mata	rial that has				52)	
52) A conductor is a material that hasA) a structure similar to semiconductors				many free electrons		32)	_
C) few free electrons		·	a positive charge				
Answer: B	0.000.01.	•	5)	a positivo orial go			
Explanation:	A)						
Explanation.	B)						
	C)						
	D)						
			•	e letter in the sequence	represents:	53)	
A) the decir	-	t.	•	the resistance value.			
C) the tolera	ance.		D)	the numerical total.			
Answer: A							
Explanation:	A)						
	B)						
	C)						
	D)						

54) If the current i	54) If the current in a circuit equals 0 A, it is likely that the					
	ce is too low	B) circuit is open				
C) circuit ha	as a short	D) voltage is too high				
Answer: B						
Explanation:	A)					
	B) C)					
	D)					
	-,					
•	55) The basic difference between a fuse and a circuit breaker is that:					
-	breaker is reusable.	B) a circuit breaker is more reliable.				
C) a fuse is	reusable.	D) a fuse is faster.				
Answer: A	•					
Explanation:	A) B)					
	Б) С)					
	D)					
	,					
56) An analog me			56)			
•	e and a scale to indicate the value	B) a digital readout				
C) no movi	ng parts	D) a high degree of accuracy				
Answer: A Explanation:	^)					
Ехріанаціон.	A) B)					
	C)					
	D)					
TDUE/EALCE MALL IT	LIGHT THE THE THE THE THE THE THE THE THE T					
TRUE/FALSE. Write T	' if the statement is true and 'F' if th	e statement is false.				
57) A SPST switch	n is used to control one circuit.		57)			
Answer: 0 Tr	rue False					
Explanation:						
FO) A Marmally O	non Duck Dutton quitak aan aann aus	wordt vulk om mot mvoko d	Ε0)			
	pen Push Button switch can carry curi	rent when not pushed.	58)			
Answer: Ir Explanation:	rue 🕝 False					
Ехріанаціон.						
59) The ohm is the	e basic unit of resistance.		59)			
Answer: O Tr	rue False					
Explanation:						
	or-coded with brown, black and oran	nge bands has a value of 10,000 Ω .	60)			
Answer: O Tr	rue False					
Explanation:						
61) Electrons have) Electrons have a positive charge.					
	rue 👂 False		61)			
Explanation:	1 2.00					

62)	Electrons attract each ot	her.	62)	
	Answer: True © Explanation:	False		
63)	The movement of free e	electrons through a conductor is called <i>current</i> .	63)	
	Answer: True Explanation:	False		
64)	An element with a relat good conductor.	ively large amount of electrons in the valence ring is considered to be a	64)	
	Answer: True © Explanation:	False		
65)	A resistor color coded v	vith yellow, violet and orange bands has a value of 4.7 k Ω .	65)	
	Answer: True © Explanation:	False		
66)	The Nickel-Metal Hydr	ride battery is an example of a secondary battery.	66)	
	Answer: True Explanation:	False		
67)	67) Electromotive force is measured in volts.			
	Answer: True Explanation:	False		
68)	To measure the current meter.	through a resistor, place the ammeter so the current must pass through the	68)	
	Answer: True Explanation:	False		
69)	For electrical current to	flow in a circuit, voltage must be applied to that circuit.	69)	
	Answer: True Explanation:	False		
70)	A generator converts el	ectrical energy into mechanical energy.	70)	
	Answer: True © Explanation:	False		
71) Resistance is the opposition to the flow of current.				
	Answer: True Explanation:	False		

Answer Key Testname: C2

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

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Answer Key Testname: C2

- 51) A
- 52) B
- 53) A
- 54) B
- 55) A
- 56) A
- 57) TRUE
- 58) FALSE
- 59) TRUE
- 60) TRUE
- 61) FALSE
- 62) FALSE
- 63) TRUE
- 64) FALSE
- 65) FALSE
- 66) TRUE 67) TRUE
- 68) TRUE
- 69) TRUE
- 70) FALSE
- 71) TRUE