Name:					
Grade and Section:	Score:	/10.0			
Date:					
Quiz # 4 on Current, Resistance	e, and emf		Newton School of Bright minds inc.		
GENERAL INSTRUCTIONS:					
 1.) Use No. 2 pencil only to shade your answer. To old answer and shade the new one. You may requ whenever you need to. 2.) Scientific calculators are allowed while other ed. 3.) Any form of cheating in examinations or any asshall be subject to disciplinary action. 	est a scratch paper from lectronic devices are prof	the proctor			
I. Multiple Choice. Shade the letter of the BEST answ	ver (5 points).				
1. The resistance of a conductors is not deper	ndent with				
(a) mass	(b) area				
© length	d resistivity				
2. The temperature of wire made from copper is increased. The resistance					
a remains the same	b decreases				
c increases	d depends on the	he temperatu	re involved		
3. An electric heater draws a current of 20 A when connected to a 120 V power source. The resistance is					
a 0.17 Ω	b 6 Ω				
© 8 Q	d 2400 Ω				
4. The $8.0~\Omega$ coil of a loudspeaker carries a cuterminals is	rrent of 0.80 A. The por	tential differe	nce across the		
a 5.2 V	b 2.3V				
© 6.4 V	d 11 V				
5. When a 100 W, 240 V light bulb was operat	5. When a 100 W, 240 V light bulb was operated at 200 V, the current flowing is				
a 0.35 A	b 0.75 A				
© 0.90 A	d 0.10 A				

II. True or False. Determine whether the statements are TRUE or FALSE by shading the BEST ANSWER (3 points).

6. In a circuit, the electromotive force (emf) influences the "pushing" of charges from lower to a

(b) False

7.	To have a steady current in a circuit, t	he path should form a closed path or loop called	a
	complete circuit		
	(a) True	(b) False	

higher potential.

(a) True

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8.	The significant role of a resistor is the highest power it can dissipate without damaging the other components or devices.
	a True b False
	Problem Solving. Solve the given problem. Write your GIVEN, REQUIRED, SOLUTION and box your final aswer with proper statement (2 points).
9.	A D cell of emf 1.5 V and internal resistance of 0.3 Ω is connected to a flashlight which resistance is 3.0 Ω Find the current in the circuit and the terminal voltage of the cell.