Name:			
Grade and Section:	Score:	/10.0	
Date:			
Quiz # 2 on Electric Potential			Newton School of
GENERAL INSTRUCTIONS:			BRIGHT MINDS INC.
 Use No. 2 pencil only to shade your answer. To chold answer and shade the new one. You may request whenever you need to. Scientific calculators are allowed while other elect Any form of cheating in examinations or any act or shall be subject to disciplinary action. 	a scratch paper from ronic devices are prof	the proctor	
I. Multiple Choice. Shade the letter of the BEST answer	(5 points).		
1. What is the change in potential energy when a +3.5 positive plate with a potential difference of 8V?	C point charge was mo	oved from a neg	ative plate to a
a 28 J	b 0.4375 J		
© 2.29 J	d 0 J		
2. If the distance between two charges is quadrupled, h change?	now would the electric p	potential energy	
a doubled	b halved		
c quadrupled	d quartered		
3. What is the SI Unit of Electric Charge?			
(a) C	(b) E		
© A	d N		
4. Whether the test charge in the electric field is positive or negative, the potential energy if the charge moves opposite to the direction of the electric force.			
a increases	b decreases		
c stays the same	d quadruples		
5. Potential energy if the charge moves	in the same direction a	as the electric fo	orce.
a decreases	b increases		
c stays the same	d quadruples		
II. True or False. Determine whether the statements are points).	e TRUE or FALSE by sha	ding the BEST A	NSWER (3
Electromagnetic force is associated with a fundame	ntal property of matter	- electric charg	e
a True	b False	S	
7. All charge separation involves the expenditure of energy			
a True	b False		
Electrostatic effects occur when electrical charges a	are separated		
a True	b False		

answer with proper statement (2 points).

9.	A charge of $4.50 \times 10^{\circ}$ C is placed in a uniform electric field that is directed vertically upward with a magnitude of $5.00 \times 10^{\circ}$ N/C. What work is done by the electrical force when the charge moves 0.450 m to the right? 0.800 m downward? 2.60 m at an angle of 45 degrees from the horizontal?

III. Problem Solving. Solve the given problem. Write your GIVEN, REQUIRED, SOLUTION and box your final