CASTLE Section 5 Quiz

 $\ensuremath{\P}$ This is a preview of the draft version of the quiz

Started: Apr 24 at 7:42am

Quiz Instructions

Question 1	1 pts
How does the current (aka 'flow rate of charge') in a parallel circuit divide?	
 if the resistors on each branch are not identical, more charge flows through lowest resistar branch 	nce
always equally	
if the resistors are not equal, more charge flows to the higher resistor's branch	
o none of these	

Question 2	1 pts
Two different circuits have two identical resistors and an identical battery, but one i configured as parallel while the other is series. Which will have the greatest charg rate through the battery?	
○ parallel	
○ series	
equal flow rate for both	

Question 3 1 pts

Two different circuits have two identical resistors and an identical battery, but one is configured as parallel while the other is series. Which will have the greatest equivalent resistance?
series
o parallel
they have the same equivalent resistance

Question 4	1 pts
A battery supplies a constant current to a circuit regardless of the circuit's r	resistance.
○ True	
○ False	

Question 5	1 pts
For the life of a battery, it supplies a nearly constant electric pressure difference to circuit when connected.) a
○ True	
False	

Question 6 1 pts

When resistors are in series, a difference in electrical pressure (aka Voltage) across resistors with varying levels of resistance is necessary to produce a constant charge flow rate (aka Current).

○ True			
False			

Adding a wire in parallel to a bulb results in a 'short circuiting' of the bulb and it will not light.

True

False

When two bulbs of unequal resistance are placed in series, the flow rate through the bulbs are ______.

equal
unequal
impossible to know

When two bulbs of unequal resistance are placed in series, the electrical pressure (voltage drop) across the bulbs are _____.

unequal
equal
impossible to know

Question 10	1 pts
When two bulbs of unequal resistance are placed in series, the bulb withresistance is brighter.	
higher	
○ lower	

When two bulbs of unequal resistance are placed in series, if one bulb lights but the other one does not, the one that does not light is not producing any heat or light.

True

False

If a bulb burns out that is placed in series with other bulbs in a circuit, the other bulbs will still light up.

True
False

Question 13 1 pts

Voltmeters should always be connected in parallel.

○ False	

Question 14	1 pts
Ammeters should be placed in series.	
○ True	
○ False	

Question 15	1 pts
Ammeters should have essentially zero resistance while voltmeters should have in resistance.	nfinite
○ True	
○ False	

Not saved

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