

CASTLE Section 4 Quiz

⚠ This is a preview of the draft version of the quiz

Started: Apr 24 at 7:41am

Quiz Instructions

Question 1

1 pts

The battery or generator determines the direction of flow of charge in a circuit.

- True
- False

Question 2

1 pts

A capacitor's voltage does not depend on the battery to which it was connected when initially charged.

- True
- False

Question 3

1 pts

A capacitor's amount of stored charge is only limited by the voltage of the battery to which it is connected.

- True
- False

Question 4**1 pts**

A capacitor stops charging when the compression of charge in its positive plate raises to that of the battery's positive terminal.

- True
- False

Question 5**1 pts**

A capacitor stops charging when the compression of charge in its negative plate raises to that of the battery's negative terminal.

- True
- False

Question 6**1 pts**

When light bulbs are placed in a circuit containing a capacitor, the bulbs will only light when the capacitor is charging, not when it is discharged.

- True
- False

Question 7**1 pts**

When light bulbs are placed in a circuit containing a capacitor, the bulbs will continue to stay lit even after the capacitor is fully discharged.

True False**Question 8****1 pts**

When light bulbs are placed in a circuit containing a capacitor, the bulbs will continue to stay lit when the capacitor is fully charged.

 True False**Question 9****1 pts**

A circuit contains three identical bulbs. One bulb is on a separate path in parallel with the two other bulbs that are in series. Which path has the brightest bulb(s)?

 the path with a single bulb the path with two bulbs in series all bulbs have the same brightness none of these**Question 10****1 pts**

If identical bulbs are continually added in series to a circuit with a constant voltage, the brightness of all the bulbs will _____ as more bulbs are added.

 decrease increase

- stay the same
- impossible to know

Question 11**1 pts**

Voltage is an electric pressure difference.

- True
- False

Question 12**1 pts**

High electric pressure should be colored with warmer (e.g. red and orange) colors.

- True
- False

Question 13**1 pts**

Low electric pressure should be colored with warmer (e.g. red and orange) colors.

- True
- False

Question 14**1 pts**

A compass can be used to determine the exact direction that charge flows through a circuit.

True

False

Question 15**1 pts**

Non-metallic substances are generally conductors.

True

False

Not saved

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