

CASTLE Section 3 Quiz

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

Started: Apr 24 at 7:40am

Quiz Instructions

Question 1

1 pts

A capacitor consists of two plates of conducting material and a layer of insulating material between the plates.

- True
- False

Question 2

1 pts

The genecon (hand held crank generator) and a battery are similar in which way?

- both pump charge through the circuit
- both squirt charge through the circuit

Question 3

1 pts

The electric capacitor has no moving parts, whereas the air capacitor has a moving membrane.

- True
- False

Question 4**1 pts**

For both the air and the electric capacitors, no air or charge (respectively), passes through the capacitor.

True

False

Question 5**1 pts**

When a capacitor is discharged, where does the charge go back to?

All of these

the other plate

the wires

None of these

Question 6**1 pts**

Wires act as 'tanks of charge'.

True

False

Question 7**1 pts**

Capacitor plates are made of non-conducting materials.

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

The direction of current in a circuit with a capacitor does not change direction from when the capacitor is charging until after it is discharged.

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

Identical light bulbs in series do not have the same brightness.

 True False**Question 10****1 pts**

The total resistance of two bulbs in series is greater than the resistance of just one bulb.

 True False**Question 11****1 pts**

The greater the current through a wire, the greater the deflection of the compass needle.

- True
- False

Question 12**1 pts**

Capacitors allow for the flow of charge through all their plate layers.

- True
- False

Question 13**1 pts**

The same amount of charge flows in and out of a capacitor that is fully charged and then fully discharged.

- True
- False

Question 14**1 pts**

Conventional current flows from the negative to the positive terminal of a battery when it is connected to a circuit.

- True
- False

Question 15**1 pts**

Electrons flow from the negative to the positive terminal of a battery when it is connected to a circuit.

- True
- False

Not saved

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