



Basic Electricity – Unit 11: Capacitance

Test 1

Circle the correct answer:

1. A capacitor stores a charge in a(n) _____.
 - a) magnetic field
 - b) electric field
 - c) moving field
 - d) plasma field
 - e) none of these
2. A capacitor opposes any change in _____.
 - a) heat
 - b) energy
 - c) voltage
 - d) current
 - e) power
3. A capacitor is made up of 2 plates separated by an insulating layer?
 - a) true
 - b) false
4. The insulating layer is call the _____.
 - a) blanket
 - b) dielectric
 - c) contact
 - d) electrolytic layer
 - e) none of these
5. If a DC voltage source is connected across the capacitor, electrons on the positive plate are attracted to the + side of the DC voltage source?
 - a) true
 - b) false
6. If a DC voltage source is connected across the capacitor, electrons on the negative plate are repelled from the negative side of the DC voltage source?
 - a) true
 - b) false





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7. The positive and negative charges on the plates are attracted to each other?
 - a) true
 - b) false

8. The value of the capacitors is what determines how many positive and negative charges are on the plates?
 - a) true
 - b) false

9. If a capacitor is connected to a DC source, the capacitor will charge to the source voltage?
 - a) true
 - b) false





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Answers:

1. A capacitor stores a charge in a(n) _____.
 - a. electric field
2. A capacitor opposes any change in _____.
 - a. voltage
3. A capacitor is made up of 2 plates separated by an insulating layer?
 - a. true
4. The insulating layer is call the _____.
 - a. dielectric
5. If a DC voltage source is connected across the capacitor, electrons on the positive plate are attracted to the + side of the DC voltage source?
 - a. true
6. If a DC voltage source is connected across the capacitor, electrons on the negative plate are repelled from the negative side of the DC voltage source?
 - a. true
7. The positive and negative charges on the plates are attracted to each other?
 - a. true
8. The value of the capacitors is what determines how many positive and negative charges are on the plates?
 - a. true
9. If a capacitor is connected to a DC source, the capacitor will charge to the source voltage?
 - a. true





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