Quiz 6--PHYS 151--Chapter 5

Multiple Choice
Identify the choice that best completes the statement or answers the question.

1. A positively charged atom is called a/an:
   a. anion
   b. pluon
   c. pion
   d. cation

2. The magnitude of the force between two charged particles is dependent on the
   I. Electric charge of the particles
   II. Distance between the particles
   III. Radius of the particles
   IV. Mass of the particles
   a. II & IV
   b. I & II
   c. I, II, and III
   d. all of these

3. The electric field is a measure of the _________ per charge.
   a. potential
   b. mass
   c. energy
   d. force

4. The units for electric potential are
   a. newtons/coulomb
   b. volts
   c. potages
   d. joules

5. A capacitor consists of 2 metal plates of area, A, and separation, d. If the area of the plates is doubled, by what amount is their capacitance changed?
   a. 1/2
   b. 1/4
   c. 4
   d. 2

6. Resistors _________ the flow of electricity in a circuit.
   a. stop
   b. increase
   c. force
   d. limit

7. Which of these parts of the body has a higher resistance?
   a. inside the body
   b. dry skin

8. Neurons have two types of extensions. They are dendrites and _________.
   a. axons
   b. glands
   c. myelins
   d. membranes

9. In the neuron, the potential inside the cell is usually _________.
   a. positive
   b. negative
   c. zero
   d. neutral

10. When a strong stimulus affects the body, the affected neurons will experience a/an _________ causing them to transmit the appropriate information to the central nervous system.
    a. action potential
    b. ATP pump
    c. resting potential
    d. nodes of Ranvier
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Answer Section

MULTIPLE CHOICE

1. ANS: D     PTS: 1
2. ANS: B     PTS: 1
3. ANS: D     PTS: 1
4. ANS: B     PTS: 1
5. ANS: D     PTS: 1
6. ANS: D     PTS: 1
7. ANS: B     PTS: 1
8. ANS: A     PTS: 1
9. ANS: B     PTS: 1
10. ANS: A    PTS: 1