BLITZ: Ch 17-20, DC Electricity Form A-C

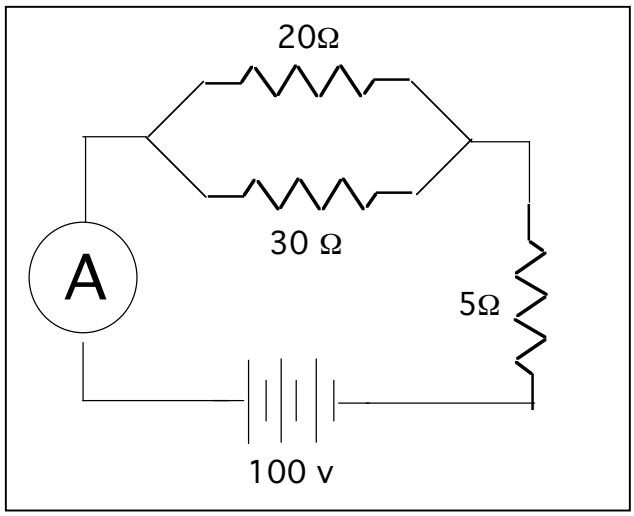
Name _____ Period ____

EXPLAIN IN COMPLETE SENTENCES AND GIVE EXAMPLES:
You MUST HAND WRITE THIS EXAM!! NO TYPED PAPERS WILL BE ACCEPTED!
Math problems must SHOW THE METHOD OF SOLUTION (Hup, two, three, four).

1. Describe FIVE methods of producing EMF.
2. Define coulomb, volt, ampere, ohm, watt, farad, mho.
3. Tell how each of THREE factors determine capacitance.
4. Explain what happens as an electroscope is charged by contact and by induction.
5. Explain how a capacitor stops DC but "passes" AC. What's a use for this?
6. What is a variable capacitor, how does it work, and for what is it used?
7. Explain Volta's Hailstorm.
8. What is the piezoelectric effect, and for what is it used?
9. Explain just what happens when Kiiiitttty meets a comb, and what causes neutral, negative, and positive charges.
10. Describe what the current meter does when a capacitor is connected to an EMF, and what it does when the capacitor is discharged.
11. Discuss the differences in voltages and amperages when electro-chemical cells are in series and in parallel.
12. Using the procedures in sample problems found in the notes, find the value of a resistor needed to operate a 100 volt, 50 watt lamp on a 220 volt battery.

In this circuit, find:

13. R (parallel)
14. R (total)
15. I (total)
16. V (5 ohm)
17. V (parallel)
18. I (20 ohm)
19. I (30 ohm)
20. Total Power



Staple this exam on top of your papers and turn in by the due date.