

Name\_\_\_\_\_ Date\_\_\_\_\_

### Section 10.2 Energized and De-energized Charges

- 1) What is *electrical potential energy*? (1 mark)
  
- 2) What are all forms of energy measured in? (1 mark)
  
- 3) What is *potential difference*? (1 mark)
  
- 4) Define *volt*. (1 mark)
  
- 5) What is the formula for calculating voltage? Write it in words and symbols. (2 marks)
  
- 6) Write down table 10.3. (1 mark)
  
- 7) What is a voltmeter used for? (1 mark)

8) Compare a battery to a water pump. (3 marks). Include a diagram for each (2 marks).

9) If 42J of chemical energy in a battery places 7.0 C of negative charge at the negative terminal, leaving a deficit at the positive terminal, what is the potential difference between the negative and positive terminals of the battery? (2 marks).