

Electrochemistry Assignment

Chemistry 3202

Name: _____

Due: June 1, 2009.

Text Reference: pp. 764 - 766, 787, 788, 802, 803

Find each of the terms described below:

1. a galvanic or electrochemical cell with the electrolyte in a paste 1. _____
2. a set of galvanic or voltaic cells connected in series 2. _____
3. what voltage is produced in a battery that has six 9 volt cells connected in series? 3. _____
4. a disposable battery is known as a ____ battery 4. _____
5. a rechargeable battery is known as a ____ battery 5. _____
6. an improved, longer-lasting version of the dry cell 6. _____
7. battery used in watches, hearing aids and pacemakers 7. _____
8. the element used as the anode in most cells 8. _____
9. a rechargeable battery found in cars 9. _____
10. the number of 2 volt cells in a lead-acid battery 10. _____
11. the voltage of a car battery 11. _____
12. the acid found in a car battery 12. _____
13. a rechargeable version of the alkaline battery 13. _____
14. a cell that produces electricity while reactants are supplied continuously from and external source 14. _____
15. the elements used in a hydrogen fuel cell 15. _____
16. the compound produced (pollutant) by the hydrogen fuel cell 16. _____

17. Write the half reactions that occur at the anode and cathode in a lead acid battery.

ANODE:

CATHODE:

18. What happens to the reactions in 17. when the battery is being charged?