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ELECTROCHEMISTRY

Study Guide

A. Matching

Match each term in Column B to the correct description in Column A.

Column A

Column B

1. a conductor in a circuit that carries electrons to or from a substance other than a metal

✓ anode

2. one part of a voltaic cell, in which either oxidation or reduction occurs

✓ electrode

3. a voltaic cell in which the electrolyte is a paste

✓ cathode

4. the electrode at which reduction occurs

✓ dry cell

5. a voltaic cell in which a fuel undergoes oxidation and from which electrical energy is obtained continuously

✓ battery

6. an electrochemical cell that is used to convert chemical energy into electrical energy

✓ electrolysis

7. a tube containing a conducting solution

✓ voltaic cell

8. a group of cells that are connected together

✓ half-cell

9. the process in which electrical energy is used to bring about a chemical change

✓ salt bridge

10. the electrode at which oxidation occurs

✓ fuel cell

B. Multiple Choice

Choose the best answer and write its letter on the line.

11. In the electrolysis of brine, the substance produced at the cathode is

- a. chlorine c. sodium
b. oxygen d. hydrogen

12. Which of the following describes a dry cell?

- a. It can be recharged many times.
b. The graphite rod does not undergo reduction, even though it is the cathode.
c. It contains concentrated sulfuric acid.
d. all of the above

High School Electrochemistry Study Guide Answers

**David F. Treagust, Reinders Duit, Hans
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