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(An Autonomous Institution)



23CHT101-Engineering Chemistry

Unit- I Electrochemistry

PUZZLES QUESTION:

1. Which term refers to the device used to convert chemical energy into electrical energy?

Choices:

- A) Electrode
- B) Battery
- C) Electrolyte
- D) Voltmeter

Answer:

2. What is the process called when a substance gains electrons?

Choices:

- A) Oxidation
- B) Reduction
- C) Electrolysis
- D) Ionization

Answer:

3. What is the negatively charged electrode in an electrochemical cell?

Choices:

- A) Anode
- B) Cathode
- C) Electrolyte
- D) Salt Bridge

Answer:

4. What is the name of the electrolyte used in a lead-acid battery?

Choices:

- A) Hydrochloric Acid
- B) Sulfuric Acid
- C) Nitric Acid
- D) Acetic Acid

Answer:

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5. What is the movement of ions through a solution called?

Choices:

- A) Conductivity
- B) Diffusion
- C) Migration
- D) Electrolysis

Answer:

6. Which law relates the amount of substance deposited during electrolysis to the quantity of electricity passed?

Choices:

- A) Boyle's Law
- B) Faraday's Law
- C) Ohm's Law
- D) Kirchhoff's Law

Answer:

Missing letters:

1. _ _ D _ C _ _ _ Y

(Hint: The flow of electric charge)

Answer:

2. R _ D _ _ _ T _ O _

(Hint: Gain of electrons in a chemical reaction)

Answer:

3. A _ _ D E

(Hint: The electrode where oxidation occurs)

Answer:

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4. _ L _ C _ _ _ L Y _ _ S

(Hint: The process of using electrical energy to drive a chemical reaction)

Answer:

5. _ A _ T _ _ B _ _ D _ E

(Hint: A device that connects two half-cells in a galvanic cell)

Answer:

Across

1. A positively charged ion (7 letters):
 - Answer:
2. The electrode where reduction occurs (7 letters):
 - Answer:
3. An apparatus that produces electricity through a chemical reaction (7 letters):
 - Answer:
4. The process of gaining electrons (9 letters):
 - Answer:
5. A substance that conducts electricity when dissolved in water (11 letters):
 - Answer:

Down

1. The electrode where oxidation occurs (5 letters):
 - Answer:
2. The study of the relationship between electricity and chemical reactions (15 letters):
 - Answer:
3. A bridge that maintains electrical neutrality in a cell (10 letters):
 - Answer:
4. The measure of a solution's ability to conduct electricity (12 letters):
 - Answer:
5. A device used to measure electrical potential difference (9 letters):
 - Answer: