SASKATCHEWAN CHEMISTRY 30 · UNIT E · 25 QUESTIONS

Electrochemistry — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A current of 2 A flows through a resistance of 10 ohms. The voltage, in volts, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A device uses 12 V and 2 A. Its power, in watts, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A voltage of 12 V is applied across a resistance of 6 ohms. The current, in amperes, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A cell that turns chemical energy into electrical energy is called**

A salt bridge

B voltaic cell

C standard reduction potential

D oxidation

Understand It with Pulse | Flag a mistake

5 **A cell that uses electrical energy to drive a chemical reaction is called**

A standard reduction potential

B oxidation

C electrolytic cell

D reduction

Understand It with Pulse | Flag a mistake

6 **A connection that lets ions flow between half cells is called**

- A oxidation
- B reduction
- C oxidizing agent
- D salt bridge

Understand It with Pulse | Flag a mistake

7 **A measure of how easily a species gains electrons is called**

- A standard reduction potential
- B reduction
- C oxidizing agent
- D reducing agent

Understand It with Pulse | Flag a mistake

8 **A substance that causes oxidation and is itself reduced is called**

A anode

B oxidizing agent

C cathode

D voltaic cell

Understand It with Pulse | Flag a mistake

9 **A substance that causes reduction and is itself oxidized is called**

A cathode

B voltaic cell

C electrolytic cell

D reducing agent

Understand It with Pulse | Flag a mistake

10 **An electrolytic cell differs from a voltaic cell because it**

A produces electricity spontaneously

B has no electrodes

C uses electrical energy to drive a reaction

D needs no power

Understand It with Pulse | Flag a mistake

11 **Gain of electrons is called**

A reducing agent

B anode

C reduction

D cathode

Understand It with Pulse | Flag a mistake

12 **In a voltaic cell, oxidation happens at the**

A cathode

B salt bridge

C anode

D wire only

Understand It with Pulse | Flag a mistake

13 **In a voltaic cell, reduction happens at the**

A cathode

B anode

C salt bridge

D voltmeter

Understand It with Pulse | Flag a mistake

14 **Loss of electrons is called**

A oxidation

B oxidizing agent

C reducing agent

D anode

Understand It with Pulse | Flag a mistake

15 **Oxidation is defined as**

A gain of electrons

B loss of electrons

C loss of protons

D gain of neutrons

Understand It with Pulse | Flag a mistake

16 **Reduction is defined as**

A loss of electrons

B loss of protons

C gain of mass

D gain of electrons

Understand It with Pulse | Flag a mistake

17 **The electrode where oxidation happens is called**

A voltaic cell

B anode

C electrolytic cell

D salt bridge

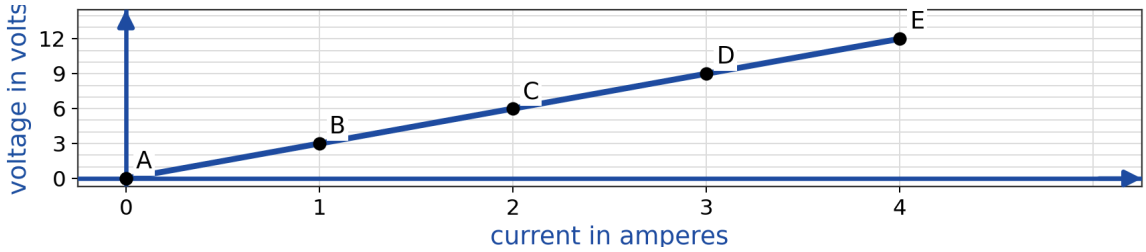
Understand It with Pulse | Flag a mistake

18 **The electrode where reduction happens is called**

- **A** electrolytic cell
- **B** salt bridge
- **C** standard reduction potential
- **D** cathode

Understand It with Pulse | Flag a mistake

19 **The graph shows voltage against current for a cell. The voltage at 2 amperes is ____**



ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A current of 3 A flows through a resistance of 12 ohms. The voltage, in volts, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A device uses 6 V and 3 A. Its power, in watts, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A voltage of 24 V is applied across a resistance of 8 ohms. The current, in amperes, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A current of 4 A flows through a resistance of 5 ohms. The voltage, in volts, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A device uses 24 V and 2 A. Its power, in watts, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

25

A voltage of 9 V is applied across a resistance of 3 ohms. The current, in amperes, is _____

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	20	**10.**	C	**19.**	6
2.	24	**11.**	C	**20.**	36
3.	2	**12.**	C	**21.**	18
4.	B	**13.**	A	**22.**	3
5.	C	**14.**	A	**23.**	20
6.	D	**15.**	B	**24.**	48
7.	A	**16.**	D	**25.**	3
8.	B	**17.**	B		
9.	D	**18.**	D		

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