NOVA SCOTIA CHEMISTRY 12 · UNIT D

Electrochemical Changes — Practice Test

Nova Scotia Chemistry 12 • 25 questions

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 amperes flows for 100 seconds. The charge transferred, in coulombs, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A current of 5 amperes flows for 60 seconds. The charge transferred, in coulombs, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A current of 10 amperes flows for 30 seconds. The charge transferred, in coulombs, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A cell has a cathode reduction potential of 0.34 volts and an anode reduction potential of -0.76 volts. The cell potential, in volts, is**

ANSWER

Understand It with Pulse | Flag a mistake

5 **A cell has a cathode reduction potential of 0.8 volts and an anode reduction potential of 0.34 volts. The cell potential, in volts, is**

ANSWER

Understand It with Pulse | Flag a mistake

6 **A cell has a cathode reduction potential of 0.34 volts and an anode reduction potential of -0.44 volts. The cell potential, in volts, is**

ANSWER

Understand It with Pulse | Flag a mistake

7 **A current supplies 2 moles of electrons to a solution containing metal ions that each need 2 electrons to deposit. The moles of metal deposited are**

ANSWER

Understand It with Pulse | Flag a mistake

8 **A current supplies 4 moles of electrons to a solution containing metal ions that each need 2 electrons to deposit. The moles of metal deposited are**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A current supplies 3 moles of electrons to a solution containing metal ions that each need 1 electrons to deposit. The moles of metal deposited are**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A charge of 200 coulombs flows in 100 seconds. The current, in amperes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A charge of 600 coulombs flows in 120 seconds. The current, in amperes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A charge of 300 coulombs flows in 60 seconds. The current, in amperes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A charge of 96500 coulombs flows at a current of 5 amperes. The time, in seconds, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A charge of 193000 coulombs flows at a current of 20 amperes. The time, in seconds, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A charge of 482500 coulombs flows at a current of 25 amperes. The time, in seconds, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A current of 10 amperes flows for 9650 seconds. Using 96500 coulombs per mole of electrons, the moles of electrons are**

ANSWER

Understand It with Pulse | Flag a mistake

17 **A current of 10 amperes flows for 19300 seconds. Using 96500 coulombs per mole of electrons, the moles of electrons are**

ANSWER

Understand It with Pulse | Flag a mistake

18 **A current of 20 amperes flows for 9650 seconds. Using 96500 coulombs per mole of electrons, the moles of electrons are**

ANSWER

Understand It with Pulse | Flag a mistake

19 **In a galvanic cell oxidation occurs at the**



A anode

B cathode

C salt bridge

D voltmeter

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20 **The anode in a galvanic cell is**

A positive

B negative

C neutral

D the salt bridge

Understand It with Pulse | Flag a mistake

21 **A salt bridge in a galvanic cell**

A produces electrons

B measures voltage

C maintains electrical neutrality

D stores metal

Understand It with Pulse | Flag a mistake

22 **In an electrolytic cell electrical energy is used to drive a**



A spontaneous reaction

B neutralisation

C precipitation only

D non spontaneous reaction

Understand It with Pulse | Flag a mistake

23 **Reduction is the**

- A gain of electrons
- B loss of electrons
- C gain of protons
- D loss of protons

Understand It with Pulse | Flag a mistake

24 **The standard hydrogen electrode is assigned a potential of**

- A 1 volt
- B 0 volts
- C -1 volt
- D 0.34 volts

Understand It with Pulse | Flag a mistake

25 **Electroplating deposits a metal onto an object by making the object the**



A anode

B salt bridge

C cathode

D battery

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	200	**10.**	2	**19.**	A
2.	300	**11.**	5	**20.**	B
3.	300	**12.**	5	**21.**	C
4.	1.1	**13.**	19300	**22.**	D
5.	0.46	**14.**	9650	**23.**	A
6.	0.78	**15.**	19300	**24.**	B
7.	1	**16.**	1	**25.**	C
8.	2	**17.**	2		
9.	3	**18.**	2		

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