ONTARIO CHEMISTRY, GRADE 12, UNIVERSITY PREPARATION (SCH4U) · UNIT D

Chemical Systems, Equilibrium, and Electrochemistry — Practice Test

Ontario Chemistry, Grade 12, University Preparation (SCH4U) • 10 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 **In the contact process, sulfur trioxide is made from sulfur dioxide and oxygen over a catalyst of**

A Platinum only

B Nickel

C Vanadium pentoxide

D Iron

Understand It with Pulse | Flag a mistake

2 **A strong acid in water ionizes**

- A Partly
- B Only when heated
- C Completely
- D Not at all

Understand It with Pulse | Flag a mistake

3 **The pH of a 0.01 molar hydrochloric acid solution is**

- A 3
- B 4
- C 1
- D 2

Understand It with Pulse | Flag a mistake

4 **The pH of a 0.001 molar hydrochloric acid solution is**

- A 4
- B 2
- C 1
- D 3

Understand It with Pulse | Flag a mistake

5 **An acid base indicator changes colour near its**

- A Boiling point
- B Melting point
- C pKa value
- D Freezing point

Understand It with Pulse | Flag a mistake

6 **At the equivalence point of a strong acid strong base titration, the pH is**

A Less than 7

B 0

C Greater than 7

D 7

Understand It with Pulse | Flag a mistake

7 **In a voltaic cell, the salt bridge maintains**

A Pressure

B Temperature

C Concentration of catalyst

D Electrical neutrality

Understand It with Pulse | Flag a mistake

8 **The anode in an electrolytic cell is the**

- A Salt bridge
- B Positive electrode
- C Neutral electrode
- D Negative electrode

Understand It with Pulse | Flag a mistake

9 **A magnesium silver cell has magnesium potential -2.37 volts and silver potential +0.80 volts. Its standard potential is**

- A +3.17 volts
- B -3.17 volts
- C -1.57 volts
- D +1.57 volts

Understand It with Pulse | Flag a mistake

10 **Batteries that can be recharged reverse the cell reaction by applying**

A Electrical energy

B Light

C Heat

D Pressure

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**5.**	C	**9.**	A
2.	C	**6.**	D	**10.**	A
3.	D	**7.**	D		
4.	D	**8.**	B		

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