



# Chem!stry

Name: ..... ( )

Class: .....

Date: ..... / ..... / .....

## Electrochemistry – True or False?

1.	During the electrolysis of molten $\text{PbBr}_2(l)$ , lead(II) ions are oxidised at the anode:	True <input type="checkbox"/>	False <input type="checkbox"/>
2.	During electrolysis, reduction takes place at the cathode:	True <input type="checkbox"/>	False <input type="checkbox"/>
3.	During the electrolysis of aqueous $\text{Ca}(\text{NO}_3)_2(\text{aq})$ , hydrogen ions are selectively reduced at the cathode:	True <input type="checkbox"/>	False <input type="checkbox"/>
4.	During electrolysis, mobile electrons carry charge through the solution:	True <input type="checkbox"/>	False <input type="checkbox"/>
5.	During the electrolysis of aqueous $\text{CuSO}_4(\text{aq})$ using copper electrodes, the anode decreases in mass:	True <input type="checkbox"/>	False <input type="checkbox"/>
6.	During the electrolysis of dilute aqueous $\text{KCl}(\text{aq})$ , chlorine ions are selectively oxidised at the anode:	True <input type="checkbox"/>	False <input type="checkbox"/>
7.	During the electrolysis of aqueous $\text{AgNO}_3(\text{aq})$ using graphite electrodes, the anode decreases in mass:	True <input type="checkbox"/>	False <input type="checkbox"/>
8.	During the electrolysis of concentrated aqueous $\text{NaBr}(\text{aq})$ , bromide ions are selectively oxidised at the anode:	True <input type="checkbox"/>	False <input type="checkbox"/>
9.	When a zinc half-cell is connected to a copper half-cell, electrons flow from the zinc towards the copper:	True <input type="checkbox"/>	False <input type="checkbox"/>
10.	When a zinc half-cell is connected to a silver half-cell, mobile ions carry charge through the salt bridge:	True <input type="checkbox"/>	False <input type="checkbox"/>
11.	When a zinc half-cell is connected to a copper half-cell, oxidation takes place in the copper half-cell:	True <input type="checkbox"/>	False <input type="checkbox"/>
12.	When a magnesium half-cell is connected to a zinc half-cell, reduction takes place in the zinc half-cell:	True <input type="checkbox"/>	False <input type="checkbox"/>
13.	When a zinc half-cell is connected to a copper half-cell, the potential difference produced is greater than when a zinc half-cell is connected to a silver half-cell:	True <input type="checkbox"/>	False <input type="checkbox"/>
14.	When a zinc half-cell is connected to a copper half-cell, the electrons flow in the same direction as they would when a zinc half-cell is connected to a magnesium half-cell:	True <input type="checkbox"/>	False <input type="checkbox"/>
15.	When a zinc half-cell is connected to a copper half-cell, oxidation takes place at the anode:	True <input type="checkbox"/>	False <input type="checkbox"/>
16.	When a zinc half-cell is connected to a copper half-cell, the potential difference eventually drops to zero once all of the copper(II) ions have been reduced:	True <input type="checkbox"/>	False <input type="checkbox"/>

- Scan the QR code given below to view the answers to this assignment.



[http://www.chemist.sg/electro\\_chem/electrochem\\_true\\_false\\_ans.pdf](http://www.chemist.sg/electro_chem/electrochem_true_false_ans.pdf)