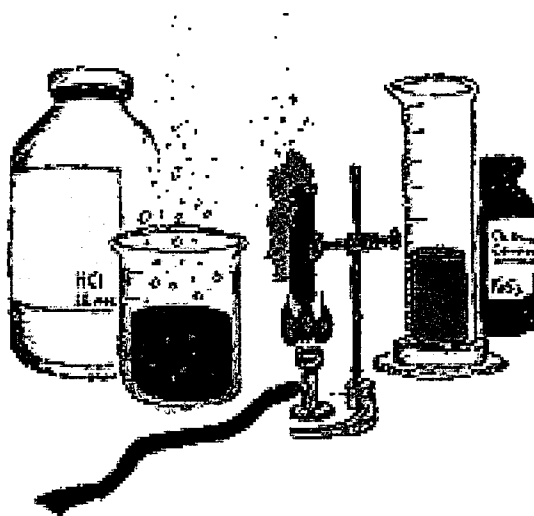


CHEMISTRY

REDOX REACTION ASSIGNMENT

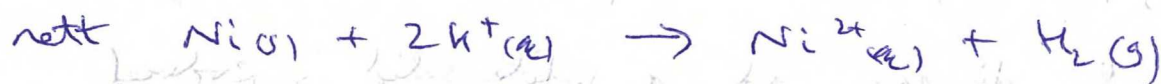
➤ Write reaction equations and observations for each of the following metal oxidation and reduction reactions. Your answers must be placed on the answer sheets provided, which are designed to ensure appropriate set out!

1. A piece of Nickel metal is dropped into a beaker of concentrated Nitric Acid.
2. A piece of Copper metal is dipped into a Silver Nitrate solution.
3. A piece of Aluminium is dipped into a solution of 6M HCl.
4. A piece of Potassium metal is dipped into a beaker of water.
5. A piece of Zinc is ignited and dipped into a gas jar full of gaseous Chlorine.
6. A piece of Aluminium is heated sufficiently in air to ignite despite its protective oxide layer.
7. A piece of Iron is dropped into Hydrochloric Acid.
8. A piece of Silver is dropped into a beaker of concentrated Sulphuric Acid.
9. A piece of Iron is placed into a solution of Lead (II) Nitrate and left to stand overnight.
10. Chlorine gas is bubbled through a solution of sodium iodide.

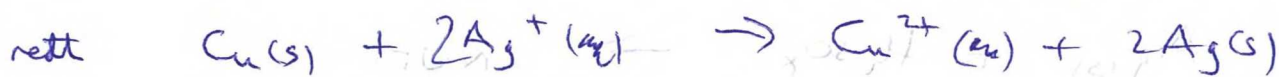




Redox Reaction (Answers)



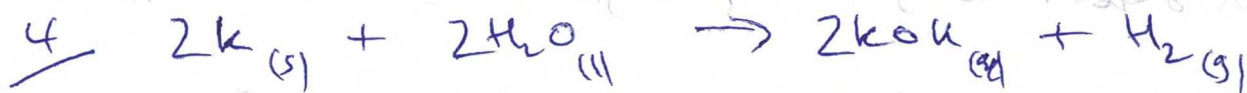
a silvery metal is added to a colourless soln. upon addition there is an immediate effervescence of a colourless, odourless gas, the metal dissolves and the solution turns green.



a salmon pink metal is added to a colourless soln. upon addition the metal dissolves, the soln turns blue and a black metal deposit forms.



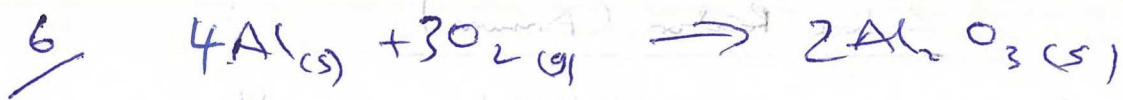
Same obs as Q1 - except soln remains colourless.



Same obs as Q3.

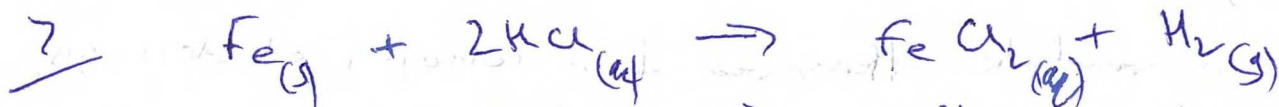


a silvery metal is added to a greenish-yellow pungent gas. The silvery metal dissolves and gas forms a white solid.

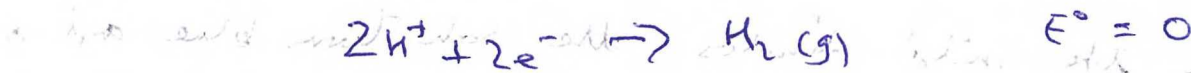


a silvery metal is heated to produce a white light.

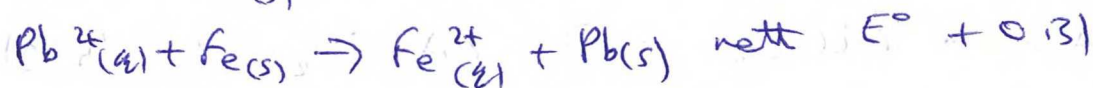
The metal disappears and a white solid is produced.



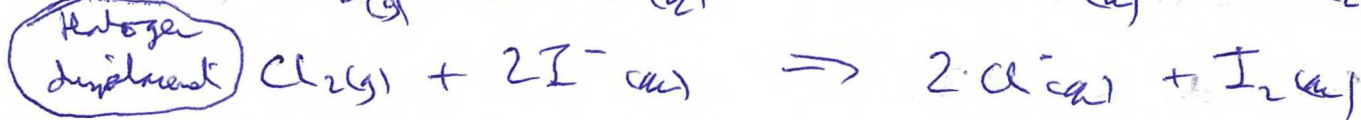
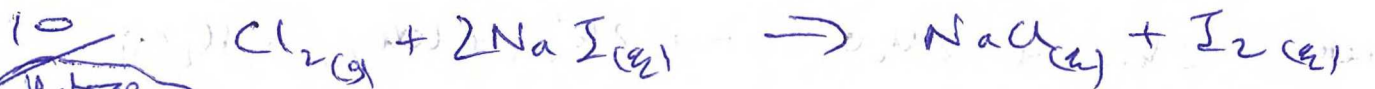
obs same as Q1 except soln turns pale green.



-ve so not spontaneous



a silvery metal is added to a colorless soln. upon addition the metal dissolves to form a pale green soln and a black ppt forms.



a pungent greenish-yellow gas is bubbled through a colorless soln. The gas dissolves and the solution turns brown.