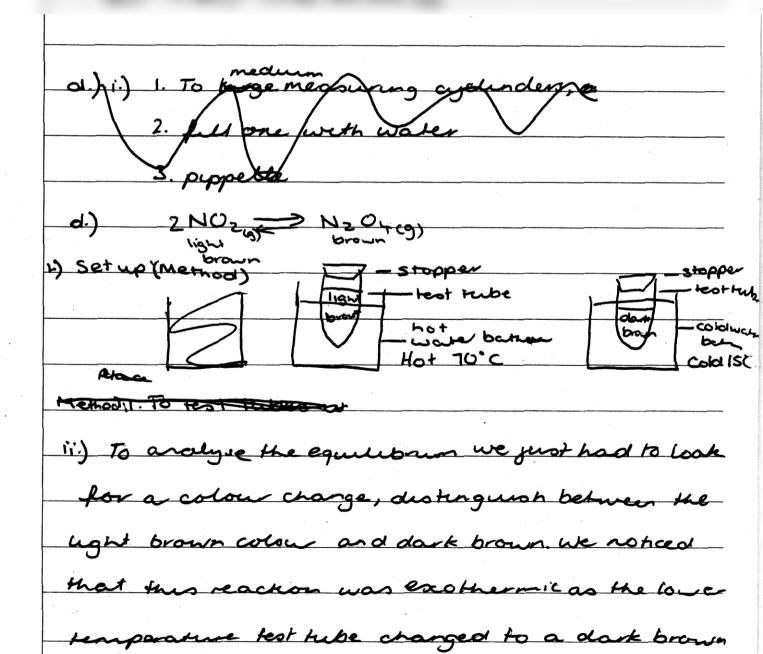




BOARD OF STUDIES NEW SOUTH WALES
$aA + bB \rightarrow cC + dV$
TET FOTA
b) K=
$\frac{aA + bB \rightarrow cC + dD}{b) = \frac{[c]^{c}[b]^{b}}{[A]^{a}[b]^{b}} = \frac{50}{50} + \frac{1}{2}0 \rightarrow 50$
SO2 4 202 -> SO3
· 1. []
. K = [503] = 0.0A
[5027[0]72 0:06×0:062
K = 3.03
part i)
C) H2SO4 + H2O >> HSO7 + H3O+
HSO- > H+ + SO-
17804 - 11 1804

c) ii)
Oxidising agent
Sulfuric and can be used to as an oxidising agent in
car lead/acid batteries
Pb + H2 SO4 ->
Sulfuric acid can be used as a dehydrating agent e.g
to dehydrate ethanol to ethene
CzHsOH -> CzH4 + H2O
Sulfuric acid can be used to precipitate lead
sulfates
Pb(SO4) + H2SO4







these forming N2049).

(e) the first methode for producing Social hydroxide

(NaOH) was the Diagaphran cell. This consisted

of a titanim anode, a iron mesh as a

cuthode and a absorbed ashots to separete

the two compartments. Firstly the Brin which

is concentrated social chiroside (Nace) enten

the cell the Chion ion, are reduced at the iron

mesh Cl + De (> Cl 1).



Soelium is 420 -> PH + LOH-He hadroxide iass inquate to the cultide So the hydroxide i'uns react with the socien to fas Socien hydroxide but also kydrochlroide i's famed also to the ashors allows hydrogen crel chlorine to pass through. They to prevent this by-product to occure they crosted a Mercury -cell which uses liquid mercury us the cuthode and fiftenin as the orade the the Sochion in is oxidized and limitarius amalgomoto with the liquid mercy Na * + r Nat (merary) this mercy then travels into a second tent which is filled with pux weter , were there the anulyna of Sodium and messery form todain hylroxide and versed. By meny environmentel problems acced due to the user of nevery Mercury and a herry metal which Stuys of the botten of the occas with



which then accomplate in the body of mind Her who we eat them morney is in our body. So firely the member cell was used to produce social hydround. It Sinula to the diapopha cell by a memebica is used unlike the ashousts the members (poly tetra fluorethein) PTFE only allows Soction ions to terel no hydroxid or chlorine ions so the final products is pour socion hydroxide. Mer bran the charges that correct from a drapophorm cell which produce a by -product to mercy cell which was pad to the



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membres						
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