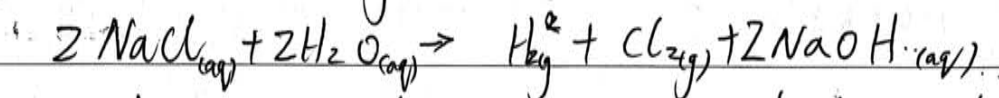


Start here.

~~of 32 a) Electrolysis of electrolysis cell. Electrolysis cell.~~

~~The mixture of salt and water (Brine..)~~

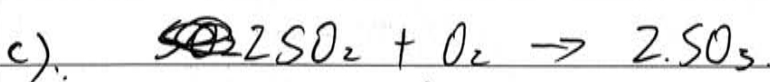
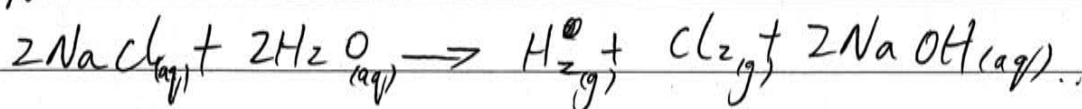
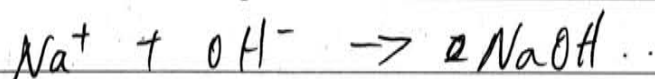
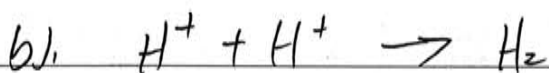
32. a). electrolysis cell.



Electrolysis the brine water that produce chlorine, hydrogen and sodium hydroxide.

process, an anode and cathode is put into the

brine water, connect the power supply, the reaction start to occur.



$$\text{O}_2 \text{ at A} = 0.4 - \frac{0.3}{2}$$

$$K = \frac{0.3^2}{0.5^2 + 0.25} = 0.18..$$

SO ₂	0.8	0.5	= 0.25 mol remain..
O ₂	0.4	0.25	
SO ₃	0	0.3	

ii) As the volume ratio is 3:2.. the increases of pressure, will favour to the production side, which occur at the time B. As well, the changing temperature is another way that has a new equilibrium position. was established at time B.

32 d)

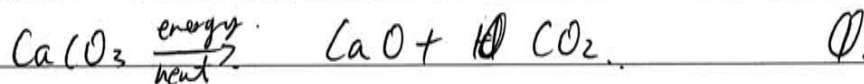
Blank lined writing area for the student's response to question 32 d).

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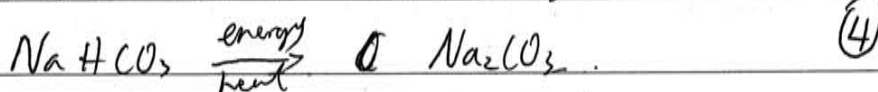
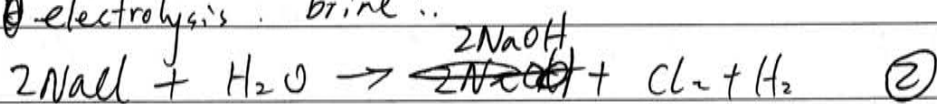
Start here.

d) i) ethanal, redox.

ii) The fume is toxic, the windows should be opened. The safety glasses should be worn.

e) limestone contains CaCO_3 .

② electrolysis, brine:



Solvay process is to produce sodium carbonate.

The purified carbon dioxide is needed in order to produce Na_2CO_3 through reaction ①. Limestone not only contains CaCO_3

but also other substances such as sulfuric. The by product of reaction ① contains sulfur dioxide, which is a pollutant and plays the role in causing acidic rain; and ashes, the small ashes may be released and through into atmosphere. It endangers human's breathing system.

The unsuccessful monitoring will occur smog, and become the environmental issue. As well, the production of carbon dioxide released in atmosphere that will contribute

to the greenhouse effect, make global warming even worse. It needs large energy input

to ensure the reaction to occur and continues production with need. large amount of ~~electric's~~ electricity, it can also through coal burning to provide the energy for this reaction to occur, but the burning coal will produce gases such as ~~sulf~~ sulfur dioxide and Nitrogen dioxide and carbon dioxide etc.....

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