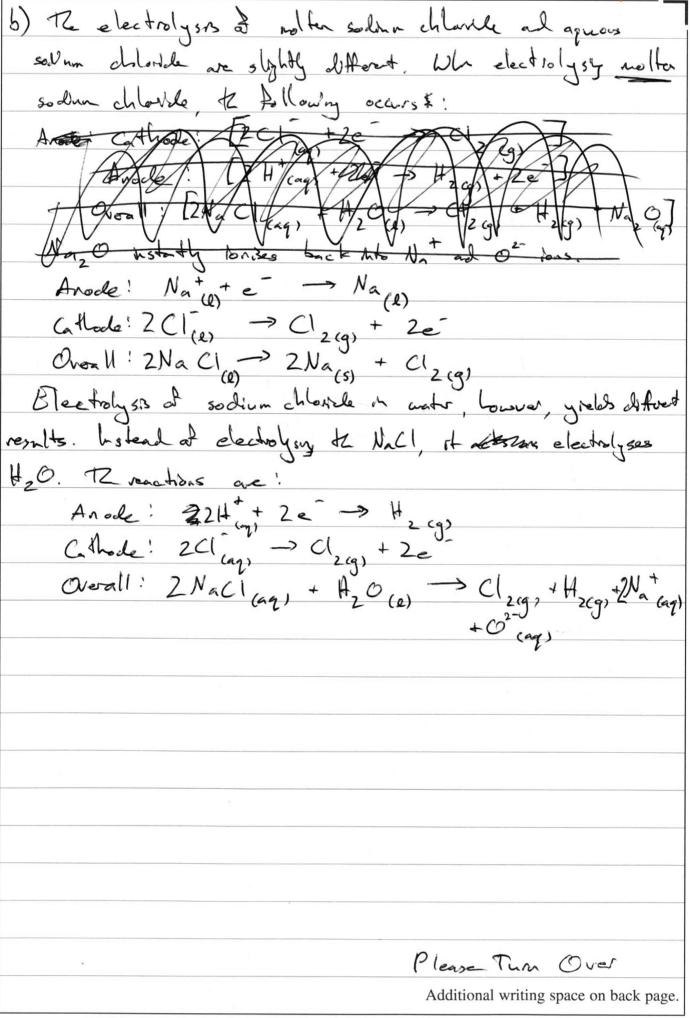
Start here. Morany Process of extractly NaOH
a) It is an electrolytic cell, with a mercury anode
and an inert cathode (possibly fitation). Sodium Chlorid
is electrolysed in the cell, with CI - being attracted to
the possitive cuttode and bey converted into Cl 2 & gas,
while softwar Nat ions are attracted to the regative anode
where ty form an amalgan at sodium netal in marcay.
The analger is pumped into a decomposition clashor, clue it
comes hato contact with water. The nevery does not read,
while of the sodium reacts like so: [2Na (5) +2H2O(e) ->
2 NaOH (ag) + Hzcg, J. Sodium hydroxide is removed, able
To nevery is recycled though a cooler and back who to
electroly sis cell.



e) Linestone is incredibly important to the Solvay process, as it is an incredibly common and estimant source of combon dioxide for the synthes of sodium carbonate. While the are other sources of carbon dioxide available most of then would be very impue as and require purification, or appear in quantities so low as to be convocably primble. Line store (Ca CO3), on to oth hard is ready available from niving and is relatively que. At the very least, it is very easy to puif it to an adequate degree Linestads role in the solvey process is as follows: CaCO3 is baleed m' a kiln to produce CaO and CO2 CaO o slaked (ready a wtr) to pode Ca(OH)2 Co, is reached and What and WHz and Hzo [202002+21/20 + 21/3 + 24,0 -> 21/4+CO3 Ca (OH) 2 B reacted with NH , Cl to post recycle to amonium [Ca(OH) 2 + 2NH CI -> Ca(12 + 2NH3 + 2 HzG] It can be seen that calcium corborate (himstone) is in credibly Important to the solvey process. The environmental impacts, however, are quite server Whester queries . Hu take to form of stall huge, shallow bites out of to earth's surface, destroying a large surface area of poplate and wildlife habitats Honever, linestone after colucies with the appeare of line, a highly dayors and corrosive material, which limits the arount of stilling flore and found that would like in the area, with the anout of affected auldlife. The dungy of the maste product Call Balso or enviormental Additional writing space on back page.

Question 32 Band 5/6 sample 2
Start here.
d) if It is a saponification reaction, where A is
potassium hydroxide (KOH)
ii) Oil (i.e. cocount oil) is placed in a beater, and
Hen estage la la mile a la la Timb
the potassium hydroxide is added. The mixture is stired,
the left in a fune cuts captioned for several days to
react. After the time has elapsed, the me two distinguishable
lyes - are of a clear light to othe an opaque sold with
a array color. The Armer is glycard to latter soap.
Safety precontions include neary safety good goggles, glass
and lab coats while very dealy with KOH, as it is lightly
corrosive. The reaction is about to take place in a fune combon
for the sam reason, and to prevent narrant l contact between
Soup and studits, who can have allegres thereto.
gree, the same of

concer. Howev, of AD dargely inventive, it does not face	-050
a theat to be environment.	,
Refore, it can be seen that it hops here if	
line star to the powers Solvey powers outneight to	ف
detrimetal effect its the use has on the environment.	
· I I I I I I I I I I I I I I I I I I I	
reconnected administration of the second	
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You may ask for an extra Writing Booklet if you need	more space