2010 HSC Chemistry

Sample 2 Start here. Membrane (ell is used to extract sodium hydroxide Start here. Brine water goes through the cell and turns into Sodium amalgam. The sodium analgam gets decomposed mato sodium hydroxide. Throughout The cell there is a young that gets in water which then gets converted by to hot water by the cooler. (b) Platenesselinationale eisener Aqueous sodium chloride is dissolved with Constant of the docomposition of water . Solution stratigette when Herters the deconsepose alter and with water. when Brine ofters the cell it gets electrolysed and chlorine comes out realts with the leaving the sodium which then hydroxide ions present in the cell. Detective Na \_ Notre Chant et al Nat + JCh -> Nat - CI Overall  $[50_2]^2$ K= [SOJE0]  $(0.5)^{2}$ = 6.94. [0.3]2[0.4]

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Sample 2 (ii) A new equilibrium position was esta dished at B because at the volume was reduced which caused the molecules to collicle and then the reaction was faster. Therefore a new equilibrium is reached Smu the O.Y mores of O2 are used up Additional writing space on back page.

1 2010 HSC Chemistry **Question 32 Band 2/3** Sample 2 Start here. U Phis is a condensation reaction. Reacter + A (A) COOH (Cattle CH 3 1S (ii) Use a specific orlandume of oil and heart it with a bunser burner with glywool. Heatit until its yellow motour for about Fifteen minute Then place the solution in acod bath. Kantil it becomes solid - Drain OFF the liquid and remove all mixture and place it on asheet of paper. This will dry it and it who like the soap. Wended Safety goggles are to be warn to see avoid and splashes Hair heeds to be fiel back 000 soit were will not catch fire from the bunser burner. Control hearting is to be done to avoid the over flowing of the solution. Constant stirring 1stobe done, soit won't cumptogether (e) Solvay process is very important process for the production of sodium carbonate. Sodium Grbonate is then used to make glass. This proces & requires the use of limestone with sodium chloride (acoz +2Naci -> Caciz + Naloz Marg linestone will cause enviconmenter Office Use Only - Do NOT write anything, or make any marks below this line.

**Question 32** 

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Sample 2 impae When Imestone is used it could soil degradation cause Additional writing space on back page.

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