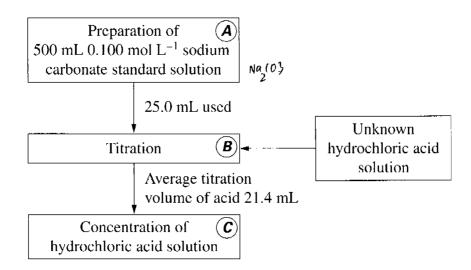
Question 28 (8 marks)

The flowchart shown outlines the sequence of steps used to determine the **8** concentration of an unknown hydrochloric acid solution.



Describe steps A, B and C including correct techniques, equipment and appropriate calculations. Determine the concentration of the hydrochloric acid.

```
Number groches g. Sodium carbox ctt. n = CV = 0.1 × 500 = 0.05(mol)

mass required to make crowdard solution = n M = 0.05 × (22.99 × 2 + 12.01 + 16×3)

= 5.5995 = 5.55 (9)

Step1 making standard solution

- Weight scores and transite and transite

He a clean braker (use dessicator of necessary no remove all the moisture in

the substance

- Add 100 mb g water aard to discolve the socium carborate 14

Marine flask (500 mk).

- Use wash bottle to wash all the remaining solutes into the flask
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Question 28 continues on page 18