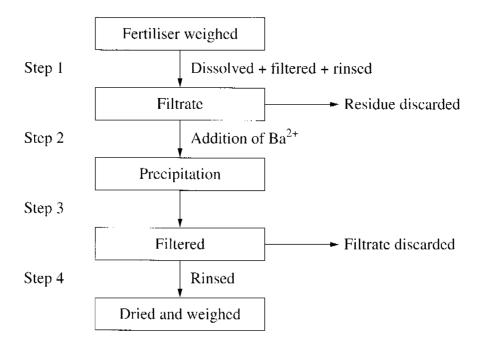
3

3

## **Question 29** (6 marks)

The flowchart shown outlines the process used to determine the amount of sulfate present in a sample of lawn fertiliser.



| (a) | What assumptions were made and how do these affect the validity of this process? |
|-----|----------------------------------------------------------------------------------|
|     | H is assumed when the residue is discarded                                       |
|     | that all the sulfake present in the fertiliser his                               |
|     | been dissolved, Marines which if it has not                                      |
|     | would produce invalid results at the                                             |
|     | end of the experimenta                                                           |
|     | /                                                                                |

(b) It was found that 4.25 g had a sulfate content of 35%.

What is the mass of the dried precipitate at Step 4? Include a chemical equation in your answer.

| mass of $ppt = \frac{35}{100} \times 35$ |
|------------------------------------------|
| =1.4875 g                                |
|                                          |
| ······································   |
|                                          |
|                                          |