**CONFIDENTIAL**

**CASPA AMUKURA PARISH**

**233/3**

**CHEMISTRY PRATICAL**

**CONFIDENTIAL INSTRUCTIONS TO SCHOOLS**

***In addition to fittings and apparatus found in a chemistry laboratory, each candidate will need the following.***

***Question one.***

* Burette
* Pipette
* Filter Funnel
* Retort stand and clamp
* Conical flask, 250ml
* White tile
* Phenolphthalein indicator
* 100cm3 of Solution K, 0.1M hydrochloric acid
* 100cm3Solution L 2g per litre of sodium hydroxide.
* Solid **N** 0.5 g of an impure calcium carbonate, ( **N** is made by mixing CaCO3 and Sodium Chloride in the ratio 4:1)
* An empty 250ml beaker

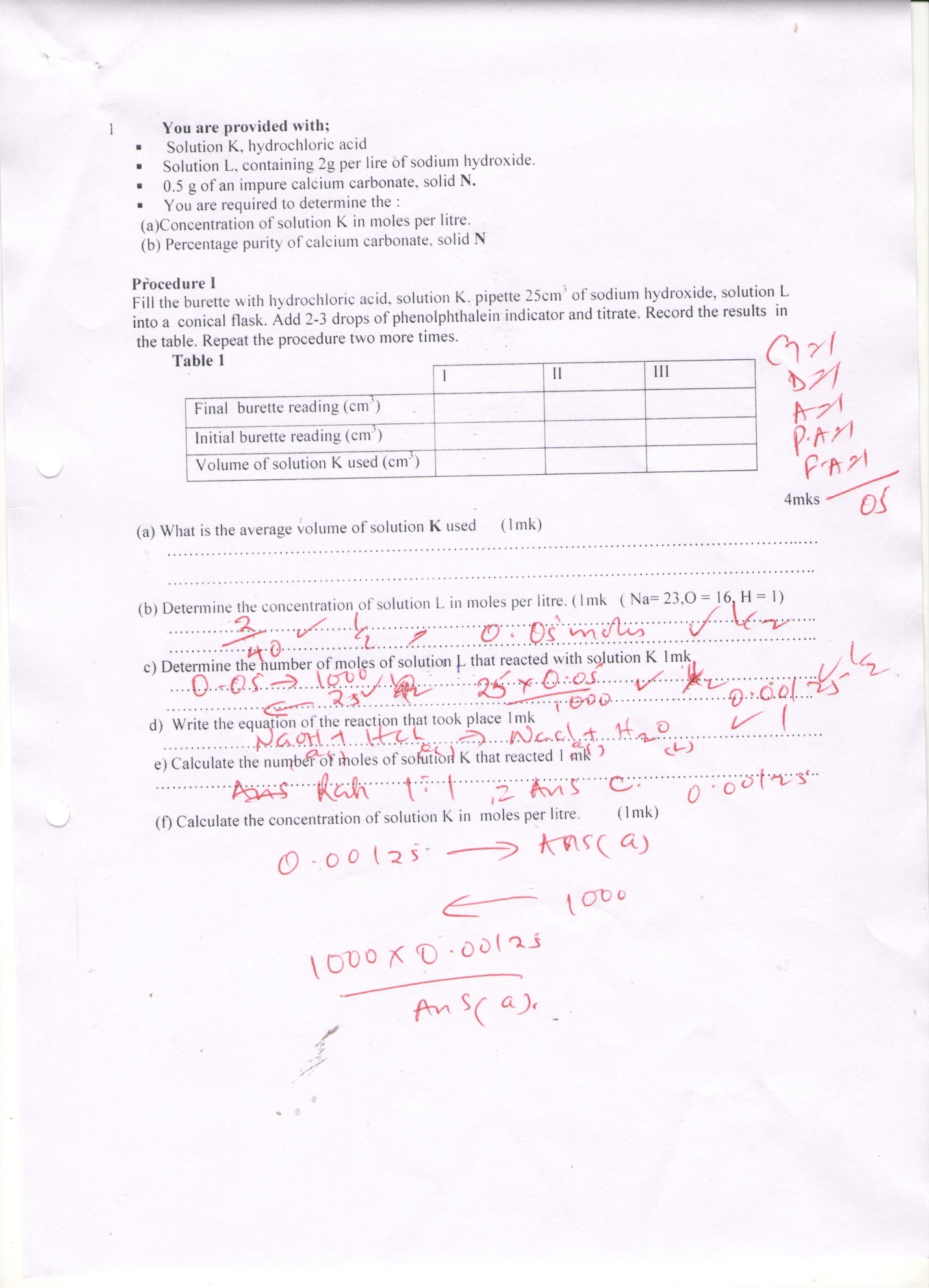
***Question two and three***

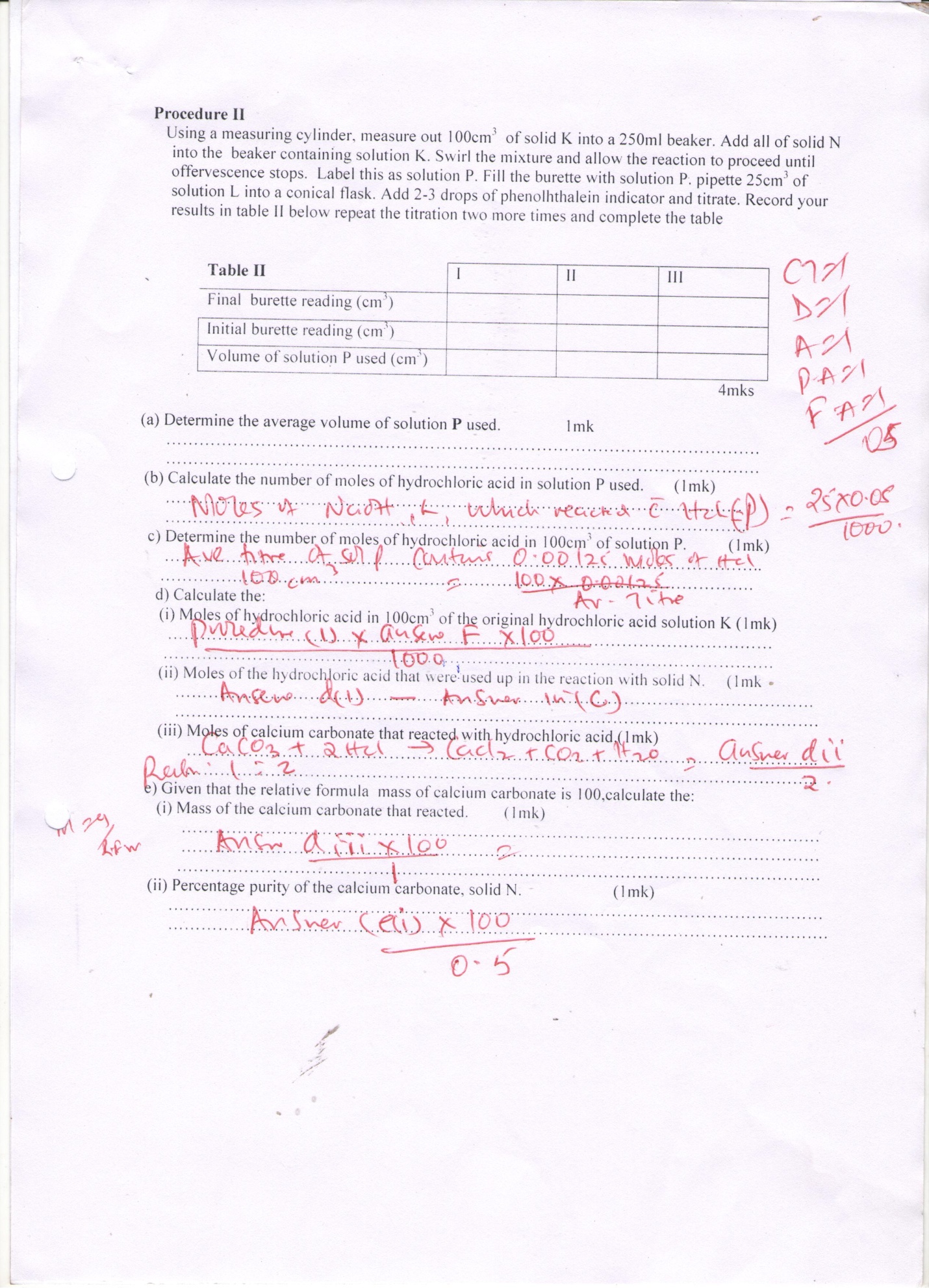
* Solid T **sodium sulphite**
* Solid J mixture of ammonium sulphate and hydrated zinc sulphate ratio 1:1

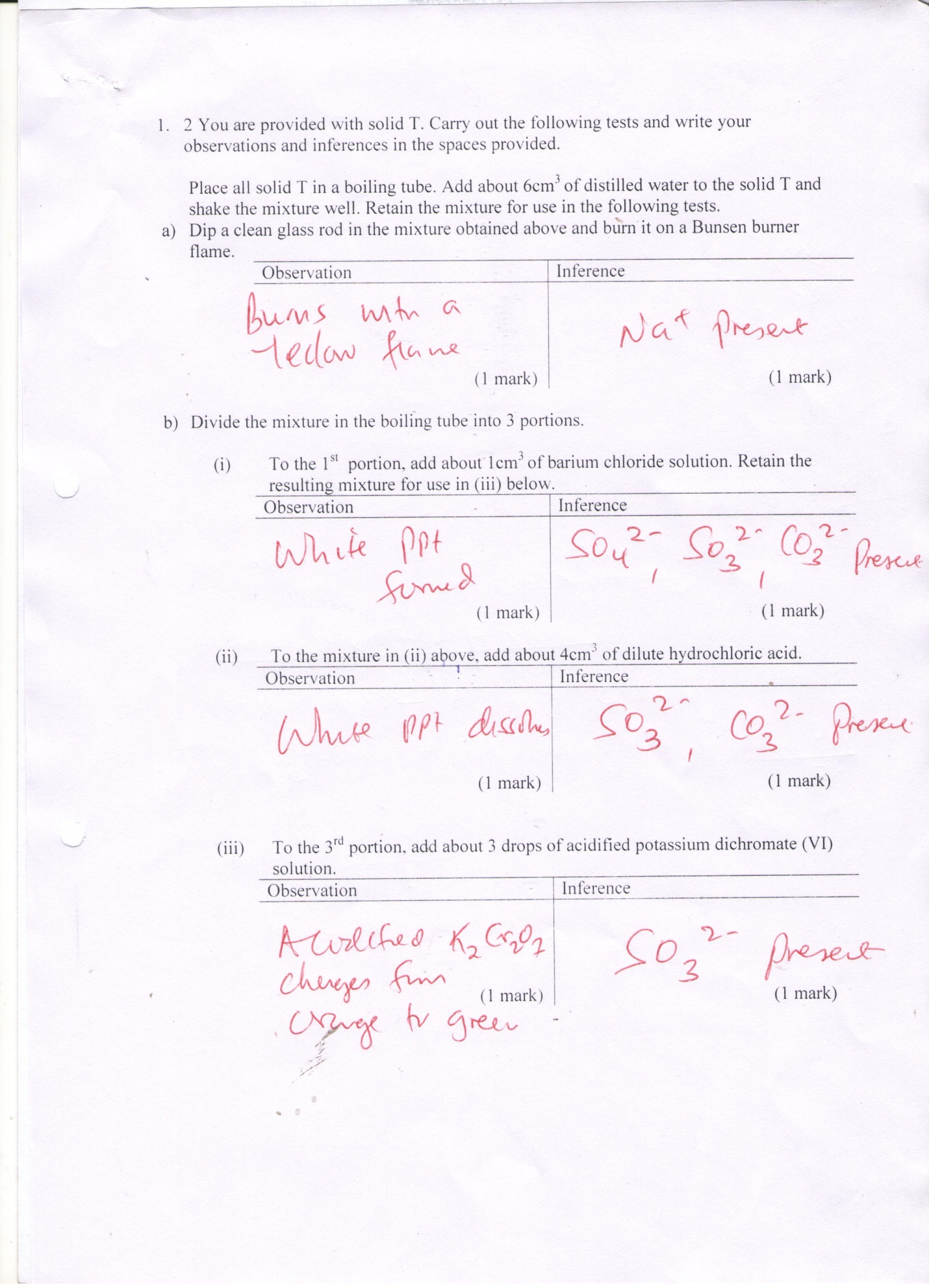
***Access to***

* Distilled water in wash bottle
* Barium chloride solution
* 2M hydrochloric acid
* Acidified potassium manganate vii
* Source of heating
* Barium nitrate
* 2M nitric v acid
* Lead ii nitrate
* 2M NaOH
* Aqueous ammonia solution
* Litmus papers

**MARKING SCHEME**







3.

a

|  |  |
| --- | --- |
| Observation | Inference |
| **A gas is given out which turns blue litmus paper red**  **(1 mark)** | **SO42-,CO32- Present**  **(1 mark)** |

B(i)

|  |  |
| --- | --- |
| Observation | Inference |
| **White ppt is formed which dissolves in addition of exess.**  **(1 mark)** | **Al3+,Zn2+,pb2+ present**  **(1 mark)** |

(ii)

|  |  |
| --- | --- |
| Observation | Inference |
| **White ppt is formed which dissolves in addition of exess.**  **(1 mark)** | **Zn2+ present**  **(1 mark)** |

(iii)

|  |  |
| --- | --- |
| Observation | Inference |
| **White ppt is formed**  **(1 mark)** | **SO42-** present  **(1 mark)** |

(iv)

|  |  |
| --- | --- |
| Observation | Inference |
| **White ppt is formed which does not dissolve on warming**  **(1 mark)** | **SO42- present / SO32-absent**  **(1 mark)** |