**CONFIDENTIAL**

**CHEMISTRY FORM 4 TERM 1 OPENER**

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| **Requirements for the student**In addition to the apparatus and fittings found in a chemistry laboratory, each candidate will require the following: |
| 1. | About 120 cm3 of solution **A.** |
| 2. | About 150 cm3 of solution **B.** |
| 3. | Three conical flasks. |
| 4. | Six clean dry test tubes. |
| 5. | One boiling tube. |
| 6. | A clean dry spatula. |
| 7. | 1.0g of solid **M** measured accurately and supplied in a stoppered container. |
| 8. | About 0.5g of solid E supplied in a stoppered container. |
| 9. | About 0.5g of solid Q supplied in a stoppered container. |
| 10. | About 0.3g of sodium hydrogen carbonate supplied in a stoppered container. |
| 11. | A 50ml burette. |
| 12. | A 25ml pipette. |
| 13. | A pipette filler. |
| 14. | A means of labelling. |
| 15. | 100ml measuring cylinder. |
| 16. | 10ml measuring cylinder. |
| 17. | Blue and red litmus papers. |
| 18. | Distilled water. |
| **Access to:** |
| 1. | Acidified potassium manganate (VII) supplied with a dropper. |
| 2. | Ammonia solution supplied with a dropper. |
| 3. | Universal indicator and pH chart. |
| 4. | Hydrogen peroxide (20v/v) supplied with a dropper. |
| 5. | A source of heat. |
| 6. | A means of labelling. |
| 7. | Methyl orange indicator supplied with a dropper. |
| **Notes:** |
| 1. | Solution **A** is a 0.2M hydrochloric acid solution. |
| 2. |  Solution **B** is 0.2M sodium hydroxide solution. |
| 3. | Solid M is a mixture of 0.5g calcium carbonate and 0.5g sodium chloride both measured accurately. |
| 4. | Solid Q is ascorbic acid. |
| 5. | Solid E is ferrous diammonium sulphate. |