

JOINT EVALUATION EXAMINATIONS

CHEMISTRY PAPER THREE CONFIDENTIAL

1. Provide each candidate with

- Exactly 5.0 g of impure anhydrous sodium carbonate in a stoppered container and label as solid i.
- ii. 100 cm³ of 2M hydrochloric acid labeled as solution Y.
- About 100 cm³ of 0.4M sodium hydroxide iii.
- 5 g of maleic acid in a stoppered container labeled as solid L iv.
- 1 burette ٧.
- 1 pipette vi.
- 10ml measuring cylinder vii.
- viii. Distilled in wash bottle
- ix. 6 test tubes
- 1 boiling tube х.
- Red and blue litmus papers xi.
- xii. 1 clamp and stand

2. In addition to the above reagents, candidates should access to:

- 1M acidified potassium chromate (vi) i.
- ii. 1M acidified potassium manganite (vii)
- iii. Bromine water
- iv. Methyl -orange indicator

3. Preparation of solutions

2 M HCl acid

Dissolve 172cm³ of concentrated hydrochloric acid in enough distilled water and dilute to one litre

Bromine water

Dissolve 10 cm³ of liquid bromine in 100cm³ of distilled water and store in a dark bottle.

Acidified potassium chromate (vi)

Dissolve 25 g of potassium chromate (vi) in 200 cm³ of 2M Sulphuric (vi) acid and dilute to one litre solution

Acidified potassium manganite (vii)

Dissolve 3.16 g of potassium manganite (vii) in 200 cm³ of 2 M Sulphuric (vi) acid and dilute to one litre.





Methyl orange

✓ Dissolve 2 g of methyl orange solid in a litre of dissolved water to form a solution. Filter the resulting mixture



