

**MARANDA HIGH SCHOOL**  
**PRE MOCK CHEMISTRY PAPER 3 CONFIDENTIAL– 2022**  
*Kenya Certificate of Secondary Education (K.C.S.E)*

**INSTRUCTIONS**

In addition to the fittings and apparatus found in a chemistry laboratory, each candidate will require the following:

**A. Each candidate**

1. One burette 0 – 50 ml
2. One pipette 25.0 ml and a pipette filler
3. One Filter funnel
4. Thermometer (-10°C – 110°C)
5. Two clean and dry 250ml conical flasks
6. Six clean and dry test-tubes
7. One boiling tube
8. 4.5g g of **solid D** weighed accurately and supplied in a dry stoppered container
9. About 500cm<sup>3</sup> of distilled water supplied in a wash bottle
10. One 10ml measuring cylinder
11. One metallic spatula
12. About 150cm<sup>3</sup> of **solution A**
13. About 100cm<sup>3</sup> of **solution B**
14. pH chart
15. About 0.5g of **Solid R**
16. About 0.5g of **solid Q**
17. About 0.2g sodium hydrogen carbonate
18. A White tile
19. Test tube holder

**B. Access to:**

1. Bunsen burner
2. 2M nitric(V) acid supplied with a dropper
3. 0.5M Barium nitrate supplied with a dropper
4. 2M aqueous ammonia supplied with a dropper
5. Universal indicator solution supplied with a dropper
6. Acidified potassium manganate (VII) supplied with a dropper
7. Acidified potassium dichromate (VI) supplied with a dropper

**Note:**

1. **Solid D** is Potassium chlorate
2. **Solid R** is Zinc sulphate
3. **Solid Q** is Impure Maleic acid
4. **Solution A** is prepared by dissolving 3.16g of potassium manganate(VII) in 400cm<sup>3</sup> of 2M sulphuric(VI) acid and making it up to one litre of solution with distilled water.
5. **Solution B** is prepared by dissolving 23.5g of hydrated ammonium Iron (II) sulphate, (NH<sub>4</sub>)<sub>2</sub>Fe(SO<sub>4</sub>)<sub>2</sub>·6H<sub>2</sub>O per litre.
6. **Acidified potassium dichromate(VI)** is prepared by dissolving 30g of potassium dichromate(VI) in 200cm<sup>3</sup> of 2M sulphuric(VI) acid and diluting with distilled water to 1 litre.
7. **Acidified potassium manganate(VII)** is prepared by dissolving 3.0g of solid potassium manganate (VII) in 200cm<sup>3</sup> of 2M sulphuric(VI) acid and diluting with distilled water to 1 litre.

**PREPARATION AND DISTRIBUTION OF SOLUTIONS/ SOLIDS and INVIGILATION**

**i) SOLUTIONS**

**1. Solution A**

- Timothy Omondo
- Ochola Vincent
- Rose Oduor
- Vitalis Imbuga

**2. Solution B**

- Getrude Malala
- Victor Odundo
- Samuel Odhiambo
- Omenda Edwin

**ii) SOLIDS**

**1. Solid R**

- Jared Okumu
- Jesse Opiyo
- Peter Andang'o
- Kevin Ogutu
- Elijah Awuor

**2. Solid Q**

- John Obonyo
- Bryan Alago
- Patricia Masitsa

**3. Sodium hydrogen carbonate**

- HOS
- Adongo Odongo

**INVIGILATION**

**NEPAD** – Peter Andang'o  
 - Ochola Vincent  
 - HOS

**GENERAL** – Timothy Omondo  
 - Edwin Omenda  
 - Bryan Alago  
 - Samuel Odhiambo

**CHEM** – Getrude Malala

**BIOLOGY** – Victor Odundo

**OLD LIB** – Jared Okumu

**PHYC GRD** – Rose Oduor  
 – Patricia Masitsa

**PHYC 1<sup>ST</sup>** – Vitalis Imbuga

**PHYC 2<sup>ND</sup>** – Jesse Opiyo

– Elijah Owuor

**NB:**

- 1. ALL SOLUTIONS AND SOLIDS SHOULD BE MADE AND DISTRIBUTED BY THE AFTERNOON OF THURSDAY 23/06/2022**
- 2. IN CASE YOU WILL NOT BE AVAILABLE, PLEASE MAKE ARRANGEMENTS FOR YOUR TASKS ABOVE.**