

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 500cm³ of distilled water supplied in a wash bottle
10. One 10ml measuring cylinder
11. One metallic spatula
12. About 150cm³ of **solution A**
13. About 100cm³ 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 400cm³ 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, (NH₄)₂Fe(SO₄)₂.6H₂O per litre.
6. **Acidified potassium dichromate(VI)** is prepared by dissolving 30g of potassium dichromate(VI) in 200cm³ 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 200cm³ 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 1ST – Vitalis Imbuga

PHYC 2ND – 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.***