



MARANDA HIGH SCHOOL

Kenya Certificate of Secondary Education

MOCK 2025 EXAMINATION

233/3 CHEMISTRY CONFIDENTIAL

PAPER 3

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

1. One burette – 0–50 ml
2. One pipette – 25.0 ml
3. Three 250 ml Conical Flask
4. One 100 ml beaker
5. About 500 ml of distilled water
6. One filter funnel
7. One spatula
8. One 10 ml measuring cylinder
9. About 50 cm³ of 2M sulphuric (VI) acid
10. Solution M, about 150 cm³
11. Solution N, about 120 cm³
12. Solution P, about 50 cm³
13. Solution Q, about 60 cm³
14. Six test tubes in a rack
15. Two boiling tubes
16. Eight labels
17. White tile
18. 50 cm³ of potassium iodide solution
19. One stopwatch



20. About 0.5 g of solid R
21. About 0.5 g of solid S
22. 0.5 g of solid sodium carbonate
23. One clean glass rod

Access to

- ✓ 2M aqueous sodium hydroxide
- ✓ Aqueous sodium sulphate
- ✓ Aqueous Barium chloride
- ✓ Aqueous Lead (II) nitrate
- ✓ Bromine water
- ✓ Acidified potassium dichromate (VI)

Preparations:

1. Solution M is prepared by dissolving 1.20 g of solid M (Potassium Iodate) in about 600 cm³ of distilled water and diluting to one litre of solution. Label this as solution M.
2. Solution N is prepared by dissolving 12.4 g of solid sodium thiosulphate in 800 cm³ of distilled water and diluting to one litre of solution. Label this as solution N.
3. Solution P is prepared by dissolving 0.40 g of solid P (Na₂HO₃) in about 800 cm³ of distilled water and diluting to one litre of solution. Label this as solution P.
4. Potassium iodide is prepared by dissolving 5.0 g of solid potassium iodide in about 800 cm³ of distilled water and diluting to one litre of solution. Label this as Potassium Iodide.
5. Solution Q is prepared by placing 10.0 g of solid Q (starch) in 1000 cm³ of distilled water. Heat the mixture to boiling and allow to cool to room temperature. Label this as solution Q.
6. Solid R - Calcium chloride
7. Solid S -Maleic acid