



STAREHE GIRLS' CENTRE MOCK EXAMINATION 2025

# CHEMISTRY



## PAPER 3

# CONFIDENTIAL

**(a) Each student should be supplied with the following**

1. Burette
2. Pipette
3. Pipette filler
4. Filter funnel
5. White tile
6. Clamp and stand
7. 2 conical flask
8. 100 cm<sup>3</sup> glass Beaker (empty)
9. Stop watch
10. 100cm<sup>3</sup> measuring cylinder
11. 10cm<sup>3</sup> measuring cylinder
12. 250 cm<sup>3</sup> volumetric flask
13. Metallic spatula
14. 6 clean test tubes
15. Test tube holder
16. 500ml distilled water
17. White piece of paper or filter paper
18. 1 filter paper
19. 1 labelling paper
20. Phenolphthalein indicator
21. About 90cm<sup>3</sup> solution K
22. About 100cm<sup>3</sup> solution L
23. About 70cm<sup>3</sup> solution N
24. About 90cm<sup>3</sup> solution P
25. About 0.5g NaHCO<sub>3</sub>
26. About 1.0g solid Q
27. About 0.5g solid R

**(b) Each student should have access to the following solutions:**

1. Mean of heating
2. 2M NaOH
3. 2M HNO<sub>3</sub>
4. Pb(NO<sub>3</sub>)<sub>2</sub>
5. Acidified KMnO<sub>4</sub>
6. Potassium iodide solution

**NB: the above solutions should be supplied with a dropper each.**

**(c) SOLUTIONS PREPARATION AND SOLID MEASUREMENTS**

1. SOLUTION K IS 1M H<sub>2</sub>SO<sub>4</sub>
2. SOLUTION L IS 0.36 M NaOH CONTAINING 14.4g OF NaOH IN 1 LITRE OF THE SOLUTION
3. SOLUTION N IS 2M HCl
4. SOLUTION P IS 0.16 M Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> (SODIUM THIOSULPHATE)
5. SOLID Q IS A MIXTURE OF SODIUM SULPHITE (Na<sub>2</sub>SO<sub>3</sub>) AND LEAD (II) CARBONATE (PbCO<sub>3</sub>) MIXED IN THE RATIO 1:1 (should be thoroughly mixed)
6. SOLID R IS MALEIC ACID