**KIJISET EXAMINATION FORM FOUR TERM II 2022**

**CHEMISTRY PAPER 3 PRACTICAL CONFIDENTIAL**

***REQUIREMENTS***

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

1. 100cm3 of solution B
2. 80cm3 of solution A
3. 50cm3of solution C
4. 25ml pipette
5. 50ml Burette
6. 2 conical flasks
7. Filter funnel
8. Filter paper
9. 10ml Measuring cylinder
10. 50ml Measuring cylinder
11. Thermometer (-10 to 1100C)
12. 100ml plastic beaker
13. 6 test-tubes on a test-tube rack
14. 1 Boiling tube
15. White tile
16. Stand and clamp
17. Solid P in a stoppered container
18. A glass rod
19. Metallic spatula
20. Distilled water in a wash bottle
21. Calcium hydroxide in a stoppered container

**Access to:**

1. Methyl orange indicator with a dropper
2. 2M sodium hydroxide with a dropper
3. 2M nitric (V) acid with a dropper
4. 2M ammonia solution with a dropper
5. 0.5M barium chloride with a dropper
6. 0.05M potassium iodide with a dropper
7. 2M hydrochloric acid with a dropper
8. Source of heat

**Preparation of solutions:**

1. **Solid P** is the mixture of Lead (II) carbonate and Sodium sulphate in the ratio of 1:1.
2. **Solution A** is prepared by mixing 53g of sodium carbonate and 42g of sodium chloride solid and dissolving to make one litre of solution.
3. **Solution B** is prepared by dissolving 86cm3 of concentrated hydrochloric acid in distilled water and dilute to one litre.
4. **Solution C** is prepared by dissolving 40g of sodium hydroxide pellets in distilled water and top up to one littre.