**SUKELLEMO CHEMISTRY PAPER 3 PREMOCK 2023**

**CONFIDENTIAL.**

1. About 100cm3 of solution A Labeled **Solution A.**
2. About 120cm3 of solution B labeled **Solution B.**
3. About 70cm3 of solution C labeled **Solution C**.
4. About 0.5 g of solid D *(Ammonium iron II sulphate) (NH4)2Fe(SO4)2.6H2O* labeled as **Solid D.**
5. About 4cm3 of solution E *(1M sodium sulphite)* in a test tube labeled **Solution E**.
6. About 10cm3 of substance *F (absolute ethanol)* in a stoppered boiling tube labelled **Substance F.**
7. About 0.2g of solid G *(Sodium hydrogen carbonate)* in a stoppered container labelled as **Solid G**
8. One pipette 25.0ml.
9. One pipette filler.
10. One volumetric flask 250.0ml.
11. One label.
12. Three conical flasks 250.0ml.
13. One 10.0ml measuring cylinder.
14. One 50.0/100.0ml measuring cylinder.
15. One 100.0ml plastic beaker.
16. One thermometer -100C to 1100C.
17. One clean metallic spatula
18. 1 blue litmus paper
19. 1 red litmus paper
20. Six clean dry test tubes in a test tube rack.

**ACCES TO.**

1. Source of heat.
2. Phenolphthalein indicator supplied with a dropper.
3. 2M Nitric V acid supplied with a dropper.
4. Barium nitrate solution supplied with a dropper
5. Acidified potassium dichromate VI supplied with a dropper.
6. 20 volume hydrogen peroxide
7. 2M sodium hydroxide supplied with a dropper.
8. Distilled water in a wash bottle.

**PREPARATIONS.**

Solution A is prepared by taking 190.0cm3 of concentrated hydrochloric acid (35% and density 1.18g/cm3) and adding it to 600cm3 of distilled water in a 1 litre volumetric flask and diluting it to the mark.

Solution B is prepared by dissolving 80.0g of sodium hydroxide pellets in 800cm3 of distilled water in a 1 litre volumetric flask and then diluting it to the mark.

Solution C is prepared by dissolving 25g of solid C (citric acid, C3H5O(COOH)3) in 600cm3 of distilled water in a 1 litre volumetric flask and then diluting it to the mark.

Barium nitrate is prepared by dissolving 26g of solid barium nitrate in about 600cm3 of distilled water in a 1 litre volumetric flask and then diluting it to the mark.

Acidified potassium dichromate VI is prepared by dissolving 25g of solid potassium dichromate VI in 200cm3 of 2M sulphuric VI acid, quantitatively transfer the mixture into a 1 litre volumetric flask and then diluting it with distilled water to the mark.

Solution E is prepared by dissolving 40.0g of sodium sulphite in a bout 500cm3 of distilled water then diluting it to one litre.