**KASSU JET EXAMINATION**.

**CHEMISTRY PRACTICAL**

**231/3**

**PAPER 3**

**JUNE 2018**

***This document must not be seen by the candidates whatsoever***

80cm3 of 0.5M lead (II) nitrate solution F

60cm3 of 1M Potassium Iodide solution

2g of solid A supplied in a stoppered container

1g of solid P

2cm of magnesium ribbon

Thermometer

One 250ml glass beaker

One boiling tube

One test-tube holder

One stop watch

10ml measuring cylinder

100ml measuring cylinder

One dropper

30cm ruler

10 labels

Test tube rack

10 test tubes

Substance W – calcium chloride

Distilled water in a wash bottle

Solution E (aqueous sodium carbonate)

Tripod stand and wire gauze.

Substance W I g of calcium chloride supplied in a stoppered container.

Access to

* Bunsen burner
* Acidified potassium dichromate (VI)
* Tissue paper
* Ethanol
* 2M ammonia solution
* 2M sodium hydroxide solution
* Bromine water

**Notes:**

Substance P - maleic acid

Substance A – sodium tetraborate decahydrate(sodium borax

 Substance W – calcium chloride

**Preparation of solutions**

* Solution E is obtained by dissolving 21.2g of sodium carbonate in 600cm3 of distilled water and diluting it to 1dm3 of solution (0.2M Sodium Carbonate)
* Acidified potassium dichromate (VI) is prepared by dissolving 25g of solid K2Cr2O7 in 200cm3 of 2M H2SO4 and diluting with distilled water to make one litre of solution.
* Bromine water is done by taking 1cm3 of bromine liquid and diluting with distilled water to make 100cm3 of the solution in the fume chamber.