

## **CONFIDENTIAL CHEMISTRY PRACTICAL JUNE 2022**

### **INSTRUCTIONS**

Each candidate should be provided with the following:

- 1) 6.0 g of solid P (accurately weighed) in dry boiling tube
- 2) About 50 ml of solution Q.
- 3) About 0.1g of solid F in a stoppered container
- 4) About 0.5g of solid M supplied in a stoppered container.
- 5) 500 ml of distilled water in a wash bottle.
- 6) A fresh universal indicator paper full range with chart (pH 1-14)
- 7) About 0.5g of solid Y in a stoppered container.
- 8) One 50 ml burette
- 9) One 25 ml pipette
- 10) One pipette filler
- 11) One thermometer (range  $-10^{\circ}\text{C}$  to  $110^{\circ}\text{C}$ )
- 12) One test tube holder
- 13) Six dry test tubes
- 14) One boiling tube
- 15) One clamp stand
- 16) One white tile
- 17) One 100ml measuring cylinder
- 18) One 10 ml measuring cylinder
- 19) One empty 250ml beaker
- 20) One 250 ml volumetric flask
- 21) Two 250 ml conical flasks
- 22) One metallic spatula
- 23) Three labels
- 24) One filter funnel

**Access to:**

- 1) 2M sodium hydroxide solution**
- 2) 2M nitric (V) acid**
- 3) 0.1M Barium nitrate**
- 4) Phenolphthalein indicator solution**
- 5) Acidified potassium manganate (VII)**
- 6) Bromine water**
- 7) Source of heat**

**Notes :**

- *Solution Q = 2M NaOH*
- *Solid Y = Zinc sulphate*
- *Solid F = Sodium carbonate*
- **Solid M = maleic acid**
- **Solid P – oxalic acid**