

233/3
CHEMISTRY
PAPER 3 (PRACTICAL)
Time: 2¹/₄ hours

KCSE 2023 TOP PREDICTION MASTER CYCLE 9

CONFIDENTIAL INSTRUCTIONS TO SCHOOLS

In addition to the normal fittings and apparatus in the laboratory, each candidate would need the following:

- 150 mls of solution **H**
- 20 mls of solution **G**.
- 25 mls pipette
- 50 ml burette
- Pipette filler
- Thermometer (-10⁰c – 110⁰ c)
- Stop-watch
- At least six test-tubes
- Two boiling tubes
- Distilled water
- Five labels
- 2 conical flasks
- 10 ml measuring cylinder
- 50 ml measuring cylinder
- 10 cm³ of solution **J**
- One filter paper
- 0.2g of solid **K**
- pH chart

Access to the following:-

- (a) Source of heat
- (b) Water bath
- (c) 2M Nitric (V) Acid
- (d) 2M Sodium Hydroxide
- (e) 2M Ammonia solution
- (f) 0.1M Potassium iodide
- (g) 0.5M acidified Barium Nitrate (Acidified with Nitric (V) Acid)
- (h) Bromine water
- (i) Sodium hydrogen carbonate solid.
- (j) Universal indicator solution.

Notes

- Solid **K** is maleic acid.
- Solution **J** is a mixture of Copper (II) Sulphate and Aluminium Sulphate. It is prepared by mixing two grams of each in water to make 20 cm³ of solution. (Prepare as per the number of candidates.)

- Solution **H** is prepared by dissolving 3.16 g of KMnO_4 and topping up to one litre.
- Solution **G** is prepared by mixing 5g of oxalic acid and 2.86g of sodium oxalate and dissolve in one litre.

N/B

Subject teachers are required to do procedures I and II and complete table 1 and table II. They should submit these values together with the students' scripts.