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**CEKENAS END OF TERM ONE EXAM-2022**

**FORM FOUR EXAM**

*Kenya Certificate of Secondary Education.(K.C.S.E)*

**233/3 CHEMISTRY PRACTICAL – END OF TERM 1**

**CONFIDENTIAL INSTRUCTIONS**

In addition to the laboratory fittings each candidate requires the following:

* About 60cm³ of solution P
* About 80cm³ of solution Q
* Accurately weighed 1.5g of solid R in a stoppered container.
* Solid H- about 0.5g in a stoppered container
* Solid G – about 0.5g in a stoppered container
* A burette
* A pipette and pipette filler
* Two conical flasks
* A 100ml plastic beaker
* A 250ml beaker
* Thermometer
* One stop watch
* 5 test-tubes
* One boiling tube
* 100ml measuring cylinder
* A small piece of aluminium foil
* A spatula
* Red and blue litmus paper
* Universal indicator paper and PH chart
* Test tube holder
* Filter paper
* Filter funnel

Access to

* 2M sodium hydroxide solution
* 2M ammonia solution
* Distilled water
* Phenolphthalein indicator
* Source of heat
* Acidified potassium dichromate (vi)
* Acidified potassium manganate (vii)
* Lead (ii) nitrate solution
* Potassium iodide solution

**Preparations**

* Solution P is 2M dilute hydrochloric acid
* Solution Q is 0.6M sodium hydroxide solution
* Solid R is accurately weighed 1.5g of sodium hydrogen carbonate solid
* Solid H is lead (ii) nitrate solid
* Solid G benzoic acid