**FORM 4 MECS CHEMISTRY CONFIDENTIAL END TERM 1 2023**

The information contained in this confidential is to enable the head of institution and the teacher in charge of chemistry to make adequate preparations for the practical examination.

**Note:** No one else should have access to this information either directly or indirectly

**INSTRUCTIONS**

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

1. Solid E – potassium chlorate 2.0 g accurately weighed in a dry boiling tube.
2. Solid A – 0.3 g magnesium powder
3. 70 cm3 of Solution B- 1M HCI
4. 120 cm3 of Solution C – 0.1M NaOH
5. 2 conical flasks.
6. Solid G – 0.2 g of maleic acid in a stoppered container
7. Solid F- 0.2g of magnesium sulphate.
8. 0.2 g of solid Na2CO3.
9. A burette (50ml)
10. A pipette (25ml) and pipette filler
11. Thermometer (-10oC – 110oC)
12. Volumetric flask(250ml)
13. Complete retort stand
14. A white tile
15. Six test tubes in a rack
16. One boiling tube
17. Test tube holder
18. 10ml measuring cylinder
19. 500ml distilled water in a wash bottle
20. One metallic spatula
21. one label

**Access to:**

1. Source of heat
2. Water bath
3. 2M NaOH solution
4. 2M dilute nitric (V) acid
5. 2M aqueous ammonia
6. 1M barium nitrate
7. 1M lead (II) nitrate
8. 1M sodium sulphate supplied in a dropper bottle
9. Acidified potassium manganate (VII) solution
10. Phenolphthalein indicator.