

233/3
CHEMISTRY
PAPER 3
(PRACTICAL)

COMA JOINT EXAM 2014

CONFIDENTIAL

A. **Each candidate should have the following.**

1. Solid A - Measure exactly 2.0g of oxalic acid.
2. Solution B - 60cm³ of 0.5M oxalic acid.
3. Solution C - 50cm³ of 0.25M sodium hydroxide solution.
4. Solution D - 100cm³ of 0.02M acidified KMnO₄ solution.
5. Burette - 50ml.
6. 25ml pipette.
7. Pipette filler.
8. 250cm³ volumetric flask.
9. 50ml measuring cylinder.
10. Thermometer (-10°C – 110°C)
11. 2- Conical flasks.
12. 100ml plastic beaker.
13. Accessible to about 500cm³ of distilled water.
14. Means of labeling.
15. Solid X – 0.5g of anhydrous Ca(OH)₂.
16. Solid Y – 0.5g of Maleic acid.
17. Blue and red litmus papers.
18. A boiling tube.
19. Test tube holder.
20. 6 test tubes.
21. 10cm³ measuring cylinder.
22. Filter paper and filter funnel.
23. Glass rod.
24. Metallic spatula.

B. **Accessible to the following.**

1. Source of heat.
2. 2M sodium hydroxide solution.
3. Acidified KMnO₄ solution.
4. Bromine water.
5. Phenolphthalein.
6. 2M hydrochloric acid solution.
7. Universal indicator solution with chart.

NB: All the bench solution above be supplied with a dropper.

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