

In addition to the apparatus and the fittings found in the Chemistry laboratory, each candidate will require the following.

1. 15.0cm^3 of solution BA1
2. About 50.0cm^3 of solution BA2
3. About 110.0cm^3 solution BA3
4. One 50.0ml burette.
5. One 25.0ml pipette.
6. One Stop watch
7. One pipette filler.
8. Two 250ml conical flasks.
9. One complete retort stand
10. One white tile
11. One filter funnel+ filter paper
12. One 100ml volumetric flask
13. Three labels.
14. One 100ml measuring cylinder
15. One clean dropper
16. One metallic spatula
17. One 500ml wash bottle with distilled water
18. One test-tube rack + 6 test-tubes + 2 boiling tubes
19. Both Red and Blue litmus papers
20. About 130cm^3 of solution BA5.
21. Magnesium ribbon(5 pieces of 1.5cm each)
22. About 0.5g of solid BA6, supplied in a Stoppered container.
23. About 0.1g of solid BA7, supplied in a stoppered container.

a) Access To:

1. Bunsen burner
2. One test-tube holder
3. Tripod stand and wire gauze
4. $2\text{M NH}_4\text{OH}_{(\text{aq})}$, provided with a dropper
5. $2\text{M HNO}_3_{(\text{aq})}$, provided with a dropper
6. $1\text{M Acidified BaCl}_2_{(\text{aq})}$, provided with a dropper
7. Solid NaHCO_3 supplied in a stoppered container
8. 0.5M potassium Iodide solution, supplied with a dropper.
9. Acidified KMnO_4 solution, provided with a dropper
10. Methyl orange indicator solution supplied with a dropper.
11. Phenolphthalein indicator solution supplied with a dropper.

Note:

- a)
- i. *Acidified potassium manganate (VII) solution is prepared by dissolving 3.16g of solid potassium manganate (VII) in about 600cm³ of 2M sulphuric (VI) acid and adding distilled water to make 1 litre.*
 - ii. *Solid BA7 is Maleic acid crystals.*
 - iii. *Solid BA6 is a mixture of ZnSO₄/ PbCO₃ in the ratio of 1:1 to make 0.5g.*
 - iv. *Solution BA5 which is 130 cc of 2MH₂SO_{4(aq)}*
 - v. *Solution BA3 which is 110cc. of 0.0678M NaOH_(aq).*
 - vi. *Solution BA2 which is 50cc of 0.0384M Oxalic acid*
 - vii. *Solution BA1 which is 30cc. of 1.25M HCl_(aq)*
- b) **On the day of the Practical Examination, the teacher concerned with the exam MUST do question 1 and 2 as per the instructions given in the question paper in order to complete Table 1, 2 and 3 for EACH practical session.**

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