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CHEMISTRY

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INSTRUCTION TO SCHOOLS

The information contained in this paper is to enable the head of the school and the teacher in charge of chemistry to make adequate preparations for this year's chemistry practical Joint examination. **NO ONE ELSE** should have access to this paper or acquire knowledge of its contents. Great care **must** be taken to ensure that the information herein does not reach the candidates either directly or indirectly. Chemistry teachers **SHOULD NOT** perform any of the experiments in the same room as the candidates or make the results of the experiments available to the candidates or give any other information related to the experiments. Doing so will constitute an examination irregularity which is punishable.

In addition to the equipment, apparatus and chemicals in an ordinary Laboratory, each candidate require:

1. About 100cm³ of solution P.(0.1M HCl)
2. About 35cm³ solution Q(1.0M NaOH)
3. Burette
4. Pipette
5. 1 Conical flask
6. Means of labelling
7. 250ml volumetric flask
8. White tile
9. 250ml plastic beaker
10. tissue paper
11. Thermometer (-10-110°C)
12. 50ml/100ml measuring cylinder
13. Distilled water

14. Rubber band
15. About 60cm³ of solution C (2M HCl)
16. About 60cm³ of solution D (2M NaOH)
17. Red and blue litmus papers
18. Wooden splint
19. About 1g solid U (a mixture of NH₄Cl and ZnCO₃ mixed in the ratio 1:1)
20. Filter paper
21. Filter funnel
22. Source of heat
23. Test tube holder
24. 4 clean dry test tubes
25. 10ml measuring cylinder

Access solutions

- ❖ 2M NaOH_(aq) supplied with a dropper
- ❖ 2M NH_{3(aq)} supplied with a dropper
- ❖ 2M Pb(NO)_{3(aq)} supplied with a dropper
- ❖ 2M HNO_{3(aq)} supplied with a dropper
- ❖ Phenolphthalein indicator supplied with a dropper.