

**KASSUJET JOINT EXAMINATION – 2023**  
**CHEMISTRY PRACTICAL – PAPER 233/3**  
**CONFIDENTIAL INSTRUCTIONS**

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**Instructions 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 preparation for the Chemistry Practical Examination.*

*NO ONE ELSE should have access to this paper or acquire knowledge of its content. Great care MUST be taken to ensure that the information herein does NOT reach the candidates either directly or indirectly. The teacher in charge of Chemistry should NOT perform any of the experiments in the SAME room as the candidates nor make the results of the experiment available to the candidates or give any information related to the experiments to the candidates. Doing so will constitute an examination irregularity.*

**In addition to the fittings and apparatus found in a Chemistry laboratory, EACH candidate will require:**

1. **Solution A**, 80ml for each candidate
2. **Solution C**, 80ml for each candidate
3. **Solution P**, 50ml for each candidate
4. **Solution Q**, 60ml for each candidate
5. **Solid E**, About 1g supplied in a stoppered container.
6. **Solid K**, About 0.5g supplied in a stoppered container.
7. One Burette, 0-50ml.
8. One 25ml Pipette.
9. Three 250ml Conical Flasks
10. One complete Retort Stand
11. One White Tile
12. One Pipette Filler
13. One Test-tube Rack
14. Six Test-tubes (on a rack)
15. Source of heat
16. Wire gauze
17. Clean metallic spatula
18. Clean glass rod
19. Thermometer with a range of  $-10^{\circ}\text{C}$  to  $110^{\circ}\text{C}$
20.  $100\text{cm}^3$  plastic beaker
21. Test tube holder
22. One label
23. Two Boiling tubes
24. Filter funnel
25. Measuring cylinder 10ml
26. Measuring cylinder 50ml
27. Measuring cylinder 100ml
28. Wash bottle filled with distilled water

**ACCESS TO**

1. Acidified Potassium Manganate (VII) supplied with a dropper.
2. Universal indicator solution supplied with a dropper.
3. PH chart
4. 2M Sodium hydroxide solution supplied with a dropper.
5. Solid sodium carbonate
6. 2M acidified barium nitrate supplied with a dropper.
7. Phenolphthalein indicator

## NOTES

1. **Solution A** is **0.648M** hydrochloric acid
2. **Solution C** is **0.1M** hydrochloric acid
3. **Solution P** is **1M** hydrochloric acid
4. **Solution Q** is **1M** sodium hydroxide solution
5. **Solid E** is Sodium sulphite
6. **Solid K** is pure Maleic acid

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