

**KASSUJET EXAMINATION - 2021**  
**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. 100ml of **Solution Y** for each candidate
2. Accurately weighed 5g of **solid X** supplied in a stoppered container.
3. About 0.5g of **Solid H** supplied in a stoppered container.
4. About 1g of **solid R** supplied in a stoppered container.
5. One Burette, 0-50ml.
6. One 25ml Pipette.
7. Three 250ml Conical Flasks
8. 250ml Volumetric Flask with a stopper.
9. One complete Retort Stand
10. One White Tile
11. One Pipette Filler
12. One Test-tube Rack
13. Six Test-tubes (on a rack)
14. Source of heat
15. Tripod stand
16. Wire gauze
17. Clean metallic spatula
18. Wooden splint
19. Clean glass rod or Nichrome wire loop
20. Thermometer with a range of  $-10^{\circ}\text{C}$  to  $110^{\circ}\text{C}$
21.  $200\text{cm}^3$  beaker
22. Test tube holder
23. One label

24. Two Boiling tubes
25. One Filter paper
26. Filter funnel
27. Measuring cylinder 10ml
28. Wash bottle filled with distilled water

**ACCESS TO**

1. Acidified Potassium Manganate (VII) supplied with a dropper.
2. Universal indicator paper
3. PH chart
4. 2M Hydrochloric acid supplied with a dropper.
5. 2M Sodium hydroxide solution supplied with a dropper.
6. 2M Ammonia solution supplied with a dropper.
7. 2M lead (II) nitrate supplied with a dropper.
8. Bromine water supplied with a dropper.

**NOTES**

1. Solution Y -Acidified Potassium Manganate (VII) prepared by dissolving 9g of solid Potassium Manganate (VII) in about 600cm<sup>3</sup> of 2M Sulphuric (VI) acid and adding distilled water to make a litre of solution.
2. Solid H is pure Maleic acid.
3. Solid R is a 1g mixture of anhydrous calcium chloride and zinc carbonate in the ratio of 1:1
4. Solid X is accurately weighed 5g of Oxalic acid