MECS END OF SECOND TERM EXAM 2021

Kenya Certificate of Secondary Education

CHEMISTRY PRACTICAL

# 2021 CONFIDENTIAL INSTRUCTIONS

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 Chemistry practical examination. NO ONE ELSE should have access to this paper or acquire knowledge of it’s 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 experiments available to the candidates or give any other information related to the experiment to the candidates. Doing so will constitute an examination irregularity which is PUNISHABLE.

In addition to the normal laboratory fittings and apparatus, each candidates should have the following:

Requirements;

1. 250cm³ of solution W; 2.0 HCl(aq)
2. Five 2cm long magnesium ribbons.
3. 120cm³ of solution R; 0.5M Na2CO3(aq).

# ACCESS TO

1. Methyl orange indicator.
2. 2M NaOH(aq)
3. 0.5M NaCl(aq)
4. 2M NH4OH(aq)

5. 0.5M Ba(NO3)2(aq)

6. 2M HNO3(aq)

7. MnO

1. One 100ml and one 10ml measuring

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4(aq)

/H+(aq)

cylinders.

1. Three conical flasks.
2. One stop watch.
3. A piece of label
4. 500ml distilled water.
5. One burette (50ml).
6. One 25ml pipette and pipette filler.
7. One complete retort stand.
8. One white tile.
9. About 1.0g of solid K
10. Six test tubes and one boiling tube on a test-tube rack.
11. Bunsen burner and lighter.
12. Blue litmus
13. Red litmus
14. Two boiling tubes.
15. About 0.2g of NaHCO3 solid.
16. About 1.0g of solid S
17. Metallic spatula

8. Bromine water.

# PREPARATIONS:

1. Solid K is hydrated aluminium ammonium sulphate.
2. Solid S is maleic acid.
3. Preparation of KMnO4(aq) / H+(aq)

Dissolve 3.16 of solid KMnO4(S) in 200cm³ of 2MH2SO4(aq) making it up to one litre using distilled water.

1. Preparation of bromine water.

Dissolve 1.0ml of bromine liquid in 100cm³ of distilled water.