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CHEMISTRY
PAPER 3
(PRACTICALS)
APRIL 2023

MARANDA HIGH SCHOOL

PRE-MOCK EXAMINATION 2023

CHEMISTRY PAPER 3 CONFIDENTIAL – 2023

INSTRUCTIONS TO SCHOOLS

In addition to the fittings and apparatus found in a chemistry laboratory, each candidate will require the following:

A: Each candidate

1. About $50cm^3$ of **solution B**
2. One burette 0 – 50 ml
3. One pipette 25.0ml and a pipette filler
4. One Filter funnel
5. 250ml beaker
6. 6.2g of Solid A **exactly** weighed in a stoppered container
7. Two clean dry 250 ml conical flasks
8. Five (5) clean and dry test tubes on a test tube rack
9. One boiling tube
10. Thermometer (-10°C to 110°C)
11. 0.2g of solid sodium hydrogen carbonate supplied in a stoppered container
12. About $500cm^3$ of distilled water supplied in a wash bottle
13. One 250ml volumetric flask
14. One 50ml measuring cylinder
15. Two (2) labels
16. One metallic spatula
17. One test tube holder
18. pH chart
19. A white tile
20. About 0.5g of solid R supplied in a stoppered container
21. About 0.5g of solid Q supplied in a stoppered container

B: Access to:

1. Phenolphthalein indicator supplied with a dropper
2. Bunsen burner
3. 2.0M aqueous ammonia supplied with a dropper
4. 2.0M sodium hydroxide solution supplied with a dropper
5. Acidified potasium dichromate (VI) solution supplied with a dropper
6. Acidified potassium manganate (VII) solution supplied with a dropper
7. 1.0M Sodium sulphate solution supplied with a dropper
8. 0.5M Barium (II) nitrate solution supplied with a dropper
9. Universal indicator solution

C: Preparation of solutions and solids

1. **Solution B** (2.0M Sodium Hydroxide) is prepared by dissolving 80.0g of sodium hydroxide in 700cm^3 of distilled water and diluting it to one litre.
2. **Solid R** is Zinc Sulphite
3. **Solid Q** is Maleic acid
4. **Solid A** is **Exactly** 6.2g oxalic acid

D: Teachers in charge of Preparations of solutions/solids

1. **Solution B – 2.0M Sodium Hydroxide**
   - Mr. Edwine Omenda
   - Mr. Vitalis Imbuga
   - Ms. Rose Oduor

2. **Solid R – about 0.5g Zinc Sulphite**
   - Mr. John Obonyo
   - Mr. Peter Andang'o

3. **Solid Q – about 0.5g Maleic acid**
   - Mr. Jerry Okumu
   - Dr. Getrude Malala

4. **Solid A – EXACTLY 6.2g Oxalic acid**
   - Mr. Brian Alago
   - Mr. Jesse Opiyo
   - Mr. Navine Onyango

5. **Sodium hydrogen carbonate – about 0.5g Sodium hydrogen carbonate**
   - Mr. Joshua Okoth
   - Dr. Adongo Odongo

Kindly ensure the laboratory is set on or before 1700hrs on Friday 14th January, 2023. Thank you