233/3
CHEMISTRY
PAPER 3
(PRACTICALS)
JANUARY - 2021
CONFIDENTIAL

MARANDA HIGH SCHOOL
POST MOCK CHEMISTRY PAPER 3 CONFIDETIAL 2021
Kenya Certificate of Secondary Education (K.C.S.E)

INSTRUCTIONS

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

A. Each candidate

1. One burette 0 50 ml
2. One pipette 25.0 ml and a pipette filler
3. One Filter funnel
4. Two clean and dry 250ml conical flasks
5. Six clean and dry test-tubes
6. One boiling tube
7. 2.1g of solid F weighed accurately and supplied in a dry stoppered container
8. About 500cm^3 of distilled water supplied in a wash bottle
9. One 250ml volumetric flask supplied with a stopper.
10. One 10ml measuring cylinder
11. One metallic spatula
12. One piece of glass rod
13. 1cm long magnesium ribbon
14. About 60cm^3 of solution G
15. About 130cm^3 of solution H
16. 100ml beaker
17. -10°C to 110°C Thermometer
18. Stop watch/stop clock
19. One sticker / label
20. pH chart
21. About 0.5g of substance R
22. About 0.5g of substance Z
23. A White tile

B. Access to:

1. Phenolphthalein indicator supplied with a dropper
2. Bunsen burner
3. Universal indicator solution supplied with a dropper
4. 2.0M lead (II) nitrate solution supplied with a dropper
5. 2.0M aqueous ammonia supplied with a dropper
6. Acidified potassium manganate (VII) supplied with a dropper
7. Acidified potassium dichromate (VI) supplied with a dropper

Note:

1. Solid F is hydrated Sodium hydrogen carbonate.
2. Solid R is Sodium Chloride
3. Substance Z is succinic acid
4. **Solution G is 2.0M Hydrochloric Acid** prepared by dissolving 172cm^3 of Conc. Hydrochloric Acid (Density 1.18g/cm^3) in 400cm^3 of distilled water and diluting with distilled water to make one litre solution.
5. **Solution H is 0.1M Sodium hydroxide,** is prepared by dissolving 4.0g of sodium hydroxide in 700cm^3 of distilled water and diluting it to 1 litre.
6. **Acidified potassium dichromate(VI)** is prepared by dissolving 30g of potassium dichromate(VI) in 200cm^3 of 2M sulphuric(VI) acid and diluting with distilled water to 1 litre.
7. **Acidified potassium manganate(VII)** is prepared by dissolving 3.0g of solid potassium manganate (VII) in 200cm^3 of 2M sulphuric(VI) acid and diluting with distilled water to 1 litre.