**233/3**

**CHEMISTY PAPER 3**

**CONFIDENTIAL**

**FORM 4**

**2021**

 **MURANGA EAST JOINT EXAMS**

***KENYA CERTIFICATE OF SECONDARY EDUCATION (KCSE)***

**CONFIDENTIAL**

Each candidate requires

1. Solution A, 60cm3 of 2mHCl.
2. Solution B, 100cm3 of 0.05MNaOH
3. Solid C, 10cm magnesium ribbon.
4. 10ml measuring cylinder
5. 25ml pipette
6. 50ml Burette
7. Complete stand
8. Stopwatch
9. 2 labels
10. Distilled water
11. 6 test tubes.
12. 0.5g sodium hydrogen carbonate.
13. 5cm3 ethanol.
14. 1 – 14 PH chart.
15. Solid R, 1g Oxalic acid.
16. Solid Q, Mixture of (NH4)2SO4 and Al2(SO4)3 (ration 1:1)
17. Pipette filler
18. Phenolphthalein indicator
19. 250ml conical flask (2)
20. 250ml volumetric flask
21. 1 boiling tube
22. 1 spatula

**ACCESS TO:**

1. Universal indicator solution
2. Acidified potassium manganite (VII) solution
3. Bromine water
4. Conc. Sulphuric (VII) acid with a dropper.
5. Means of heating.
6. 2M Lead (II) nitrate solution.
7. 2M dilute nitric (V) acid solution
8. 0.5m Barium nitrate solution
9. 2M sodium hydroxide solution.
10. 2M Aqueous ammonia.
11. 2M Hydrochloric acid.