**CHEMISTRY MOKASA 2018**

**CONFIDENTIAL**

In addition to the fittings and apparatus in the laboratory each candidate should have following .

1. Solid A in a stoppered boiling tube.
2. Solution B (about 70cm3)
3. Solution C (about 100cm3)
4. 100ml measuring cylinder
5. 250ml conical flask
6. White tile
7. Pipette and pipette filler
8. Burette
9. Retort stand
10. Distilled water in wash bottle
11. Glass rod
12. Two labels
13. Two dry boiling tubes
14. Six dry test tubes in a rack
15. Clean and dry spatula
16. 10ml measuring cylinder
17. 250ml volumetric flask
18. Filter paper
19. Solid E
20. Solid F
21. Empty 250 ml plastic beaker

**Access to**

1. 2M NaOH Solution supplied with dropper
2. 2M NH3 (aq) solution supplied with a dropper
3. Barium nitrate solution supplied with dropper.
4. 2M nitric(v)acid supplied with a dropper
5. Sodium sulphate solution supplied with dropper.
6. Potassium iodide solution
7. Bunsen burner flame(Non-luminous)
8. Acidified KMnO4
9. Universal indicator paper
10. Full range pH chart(pH 1-14)
11. Phenolphthalein indicator

**NOTES**

1. Solid A(4.5g of oxalic acid which is accurately weighed)
2. Solution B (0.2M sodium hydroxide solution)
3. Solution C (0.1M Hydrochloric acid solution)
4. Solid E (About 1g mixture of ZnSO4 and PbCO3 in the ration of1:1)
5. Solid F (About 0.5g maleic acid)