**MWAKICAN JOINT EXAM (MJET)**

 **FORM 3 TERM 1 - 2017 CHEMISTRY**

**PRACTICAL PAPER 3 233/3**

**CONFIDENTIAL**

In addition to the fittings and chemicals found in a chemistry laboratory,each student will require the following.

1 120cm3 of solution P-2M HCL

2 Accurately weighed 5.0g of solid Q-Na2CO3

3 About 80cm3 of solution R-40g/litre NaoH.

4 100ml measuring cylinder

5 10ml measuring cylinder

6 3 conical flasks

7 250ml beaker

8 1 label

9 25.0ml pipette

10 burette

11 tile,funnel,stand,clamp and boss

12 distilled water

13 About 8 test tubes

14 Metallic spatula – clean

15 2 boiling tubes

16 PH chart

17 2cm length magnesium ribbon(cleaned)

18 2 wooden splints

19 ½ spatula of sodium hydrogen carbonate

20 one red and one blue litmus papers

21 Test-tube holder

(22) ½ spatula of each of the solids below

 :- A – Na2SO4

 ::- B – Na2CO3

 :- C – Zn(NO3)2

:- D – Pb(NO3)2

 :- E – CuSO4.5H2O

23 Solution F-10cm3 1M HCl

Access to

1. Means of heating

2. Phenolphthalein indicator

3 2M ammonia solution

4. 1M HCl

5. Universal indicator