

# THE ELITES JET



## **CHEMISTRY 233/3**

### **CONFIDENTIAL INSTRUCTIONS TO SCHOOLS**

Each candidate will require the following in addition to the apparatus and fittings in a Chemistry Laboratory:-

1. 100cm<sup>2</sup> of solution B.
2. Accurately weighed 4g of hydrated ethanedioic acid – Solid A.
3. One burette – 50ml.
4. One pipette – 25ml.
5. One pipette filler.
6. One 250ml volumetric flask.
7. One thermometer – 10<sup>0</sup>C – 110<sup>0</sup>C.
8. One boiling tube.
9. Six test-tubes in a rack.
10. One metallic spatula.
11. 400cm<sup>2</sup> of distilled water.
12. Means of labeling.
13. About 1g of NaHCO<sub>3</sub>
14. Red and blue litmus paper
15. About 1g of solid D
16. About 1g of solid E
17. About 1g of solid F
18. Bunsen burner.

#### **Access to:-**

- 2M aqueous ammonia solution supplied with a dropper.
- Phenolphthalein indicator supplied with a dropper.
- 2M HCL
- Acidified K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> supplied with a dropper.

## **PREPARATIONS**

- Solid F is maleic acid.
- Solid E is magnesium powder
- Solid D is copper carbonate
- Solution B is 0.2M sodium hydroxide

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