

# CHEMISTRY PRACTICAL GUIDE; 2018 SERIES

## SPECIFIC OBJECTIVES OF CHEMISTRY PRACTICAL;

- To test if the student is able to select & handle apparatus for use in an experimental work
- To test if the student is able to use his/her theoretical understanding of chemistry to make accurate observations and draw conclusions from those observations
- To test if the student is able to make accurate measurements

## AREAS COMMONLY TESTED IN PRACTICAL;

- Qualitative analysis (organic & inorganic)
- Quantitative analysis
- Graphical work

### A) QUALITATIVE ANALYSIS

Refers to the process of carrying out chemical tests on substances with the sole aim of identifying them

### TO BE ABLE TO GET GOOD RESULTS;

- Accurately identify the test reagents
- Identify what these reagents test
- Predict the expected results

## I. INORGANIC

Test for cations (12 cations involved;  $\text{Na}^+$ ,  $\text{K}^+$ ,  $\text{NH}_4^+$ ,  $\text{Ca}^{2+}$ ,  $\text{Ba}^{2+}$ ,  $\text{Mg}^{2+}$ ,  $\text{Al}^{3+}$ ,  $\text{Zn}^{2+}$ ,  $\text{Pb}^{2+}$ ,  $\text{Cu}^{2+}$ ,  $\text{Fe}^{2+}$  &  $\text{Fe}^{3+}$ )

### 1) Addition of NaOH drop wise until in excess

Observation	Inference
• White precipitate, soluble in excess OR	$\text{Zn}^{2+}$ , $\text{Al}^{3+}$ , $\text{Pb}^{2+}$ ZAP
• White precipitate, insoluble in excess OR	$\text{Mg}^{2+}$ , $\text{Ca}^{2+}$
• No white precipitate OR	$\text{Na}^+$ , $\text{K}^+$ , $\text{NH}_4^+$ present $\text{Zn}^{2+}$ , $\text{Al}^{3+}$ , $\text{Pb}^{2+}$ , $\text{Mg}^{2+}$ , $\text{Ca}^{2+}$ absent

# 12th Chemistry Practical Guide

**WJ Hussar**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle overlapping the right side of the bar.

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