

# 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
<ul style="list-style-type: none"><li>White precipitate, soluble in excess</li></ul> OR	$\text{Zn}^{2+}$ , $\text{Al}^{3+}$ , $\text{Pb}^{2+}$ ZAP
<ul style="list-style-type: none"><li>White precipitate, insoluble in excess</li></ul> OR	$\text{Mg}^{2+}$ , $\text{Ca}^{2+}$
<ul style="list-style-type: none"><li>No white precipitate</li></ul> 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

**Bornok Sinaga,Rahmad  
Husein,Juniastel Rajagukguk**



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have contributed many inspiring inputs on current trending educational research topics all over the world The expectation is that all potential lecturers and students have shared their research findings for improving their teaching process and quality and leadership There are 162 papers passed through rigorous reviews process and accepted by the committee All of papers reflect the conference scopes by follow Teachers Education Model in Future Education and Research Global Issue Transformative Learning and Educational Leadership Mathematics Science and Nursing Education Social Language and Cultural Education Vocational Education and Educational Technology Economics Business and Management Education Curriculum Research and Development Innovative Educational Practices and Effective Technology in the Classroom Educational Policy and Administration Education

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