

CHEMISTRY PRACTICAL GUIDE: 2018 SERIES

SPECIFIC OBJECTIVES OF CHEMISTRY PRACTICAL:

- i. To test if the student is able to select & handle apparatus for use in an experimental work
- ii. 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
- iii. To test if the student is able to make accurate measurements

AREAS COMMONLY TESTED IN PRACTICAL:

1. Qualitative analysis (organic & inorganic)
2. Quantitative analysis
3. 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;

- a) Accurately identify the test reagents
- b) Identify what these reagents test
- c) Predict the expected results

I. INORGANIC

Test for cations (12 cations involved: Na^+ , K^+ , NH_4^+ , Ca^{2+} , Ba^{2+} , Mg^{2+} , Al^{3+} , Zn^{2+} , Pb^{2+} , Cu^{2+} , Fe^{2+} & Fe^{3+})

1) Addition of NaOH drop wise until in excess

Observation	Inference	
• White precipitate, soluble in excess OR	Zn^{2+} , Al^{3+} , Pb^{2+}	ZAP
• White precipitate, insoluble in excess OR	Mg^{2+} , Ca^{2+}	
• No white precipitate OR	Na^+ , K^+ , NH_4^+ present Zn^{2+} , Al^{3+} , Pb^{2+} , Mg^{2+} , Ca^{2+} absent	

12th Chemistry Practical Guide

James Sim Wallace

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stammenden sephardischen juden in wien leopoldstadt erbaut und unter dem nazi regime im jahre 1938 zerstört wurde

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