

## CLASS 12<sup>th</sup> Chemistry Lesson Plan for October-2015

Month of October 5 days 19 <sup>th</sup> oct– 23 <sup>th</sup> oct	Concepts and skills	Learning outcomes	Instructional tools	Pedagogy	Activity/ Assignment /Research	Assessment	Formative/ Summative Assessment Syllabus
<b>CLASSES Required</b> <b>05</b>  Topic <b>P-Block Elements</b> <b>Nitrogen Family</b>							
1. General Introduction	Students will learn how to predict the block, period and group no. of an element.	Importance of elements and general inorganic chemistry	Black board, text book and reference book.	Lecture, Discussion Random questioning	Discussion In class and Textual questions.	Individual class work and questions based on text book	To be tested in Final term examination.
2. Electronic Configuration and atomic and physical properties of nitrogen family.	Students will be able to write electronic configuration and thereby using the same in predicting the trends in properties.	Comparison of trends across the period and down the group.	Board to teach Text book for the topics and reference book.	Lecture, Textual questions Brain storming questions related to topics.	Discussion In class and Textual questions.	Discussion In class related to the topic	To be tested in Final term examination.
3. Chemical properties of nitrogen family.	Students will get to know the bonding and valency of elements in their compounds.	Why some elements of 15th family show decrease in stability of lower oxidation states down the group.	Black board, text book and reference book.	Lecture, Discussion Random questioning	Discussion In class and Textual questions.	Discussion In class related to the topic	To be tested in Final term examination.
A .Oxidation States							
B. Disproportionation reaction							

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C. Formation of hydrides and oxides.	Students will come to know about the variations of boiling point, melting point, acidic, basic reducing thermal stability in the hydrides and oxides.	Importance of intermolecular force like hydrogen bonding and vanderwals force.	Black board, text book and reference book.	Lecture, Discussion Random questioning	Solving the text book numericals.	Discussion In class related to the topic	To be tested in Final term examination.
5. Aromatic properties of nitrogen.	$P\pi - P\pi$ bonding catenation, Nature of oxides.	How nitrogen and its compounds are different from other elements of same family.	Black board, text book	Lecture, Questioning	Discussion	Discussion	To be tested in Final term examination.
6. Dinitrogen preparations and properties.							