

Lebanon Evangelical School for Boys and Girls

Loueizeh - Baabda - Lebanon
P.O. Box 108 Hazmieh
Tel : 05 924 090/1
Fax : 05 924 089
email : admin@lesbg.com
http://www.lesbg.com



Sunday, January 10, 2010

Mid Year Exams : February 2010

Please place on this sheet the contents of your course that you will be examining in your Mid Year Exam. Details are expected. Chapter numbers, section headings and the like. A photocopy of what you send back to me will be sent to parents next week.

Teacher :Ludvik Ayvazian

Subject :Chemistry-11S

Introduction:Acids And Bases

- 1- Definition of Acids and Bases.
- 2- Chemical properties of Acids.
- 3- Acid-Base reactions- Titration.
- 4- Indicators- pH- Dissociation constant K_w .

Chapter One: Thermochemistry

- 1- Reaction Systems
- 2- Exothermic and Endothermic reactions
- 3- Heat of formation-Heat of combustion...
- 4- Hess and La Place Laws
- 5- Heat measurement at constant pressure
- 6- Bond energy

Chapter Two: Electrochemistry

- 1- Oxidation-Reduction
- 2- Redox couples
- 3- Oxidizing agent-Reducing agent
- 4- Reducing power of metals-Oxidizing power of metal ions
- 5- Gamma rule
- 6- Hydrogen Couple
- 7- Reaction between acidic solutions and some metals

Chapter Three:Oxidation-Reduction Potential

- 1- Galvanic cell
- 2- emf of a cell
- 3- Hydrogen half-cell
- 4- Electrochemical classification of redox couples.

Chapter Four: Balancing Redox Reactions

- 1- Assigning oxidation numbers
- 2- Balancing by The half-reactions method

- 3- Oxidation half-reaction - Reduction half-reaction
- 4- Overall redox reaction
- 5- Balancing by the oxidation number method