

# Lebanon Evangelical School for Boys and Girls

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## Mid Year Exams : February 2012

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 - 9B

### Chapter One

- 1-Development of the atomic theory
- 2-Sub atomic particles (protons-neutrons-electrons)
- 3-Atomic number-Mass number-Atomic symbol-Nuclear charge-Electronic charge.
- 4-Isotopes-Average atomic mass
- 5-Mole-atom - Molar mass-Avogadro's number
- 6-Circle-graph - Bar-graph

### Chapter Two

- 1-Electronic cloud and energy levels(K-L-M...)
- 2- Physical properties-Chemical properties.
- 3-Relation between the energy of the electron and its distance from the nucleus
- 4-Electronic configuration in atoms
- 5-Periodic table-Group-Period
- 6- Metals- Non-metals-Main group elements
- 7-Electronic configuration of ions

### Chapter Three

- 1-Octet rule
- 2-Valence electrons
- 3-Valency
- 4-Lewis dot-symbol
- 5-Covalent bond(single-double-triple)
- 6-Lewis dot-structure(Lewis formula)
- 7-Ionic bond
- 8-Cations-anions
- 9-Ionic formula
- 10-Elements-Compounds
- 11-Molecular formula

### Chapter Four

- 1-Oxidation-Reduction
- 2-Assigning oxidation numbers
- 3-Oxidizing agent-Reducing agent
- 4-Oxidation half-reaction
- 5-Reduction half-reaction
- 6-Overall(Redox) reaction
- 7- Anode-Cathode
- 8-Galvanic cell
- 9- Electrolytic cell-Electrolysis of water
- 10-Electroplating
- 11-Cathodic protection

