

# 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



Tuesday, May 03, 2011

## Final Exams : June 2011

Teacher :LA

Subject :Chemistry-9A

### Chapter Four

- 1-Oxidation-Reduction
- 2-Assigning oxidation numbers
- 3-Oxidizing agent-Reducing agent
- 4-Oxidation half-reaction
- 5-Reduction half-reaction
- 6-Anode and Cathode
- 7-Overall(Redox) reaction
- 8-Galvanic cell-salt bridge-redox couples
- 9-Electrolytic cell(electrolysis)
- 10-Electroplating(Nickel plating – Silver plating)

### Chapter Five

- 1-Difference between organic and inorganic compounds.
- 2-Aliphatic hydrocarbons.
- 3-Alkanes(  $C_nH_{2n+2}$  saturated) naming- physical properties- chemical properties(combustion-substitution)- structural formula- condensed structural formula- molecular formula- molecular mass.
- 4-Alkenes(  $C_nH_{2n}$  unsaturated)- cycloalkanes- naming- physical properties- chemical properties of alkenes(combustion- addition)-structural formulas-condensed structural formulas- molecular formula- molecular mass.
- 5-Alkynes( $C_nH_{2n-2}$  unsaturated) -naming-structural formulas-condensed structural formulas-molecular formulas-molecular mass.
- 6-Functional groups-isomers.
- 7-Law of conservation of atoms(balancing).

### Chapter Six

- 1-Alcohols  $C_nH_{2n+1}OH$  or R-OH or  $C_nH_{2n+2}O$  (molecular formula-structural formula –condensed structural formula).
- 2-Carboxylic acids  $C_nH_{2n+1}COOH$  or  $C_nH_{2n}O_2$  (molecular formula- structural formula- condensed structural formula).
- 3-Esters
- 4-Saponification.

# 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>



Tuesday, May 03, 2011

## Chapter Seven

- 1-Crude oil-petroleum.
- 2-Fractional distillation of crude oil(distillation or fractionation tower)
- 3-Cracking of petroleum.
- 4-Synthetic polymers or plastics(polyethene-polypropene-PVC-polystyrene)
- 5-Properties of plastics
- 6-Thermoplastics-thermosets.

## Chapter Eight

- 1-Air pollution-water pollution- soil pollution
- 2-Green house effect( $\text{CO}_2$  –  $\text{CH}_4$  ...gases)-consequences(Global warming...)
- 3-Ozone depletion(CFC gas...)-consequences
- 4-Acid rain( $\text{SO}_2$ - $\text{NO}_2$  gases)-consequences
- 5-Reading and drawing graphs about pollution.

