

Lebanon Evangelical School for Boys and Girls

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Wednesday, January 04, 2012

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-12P

Chapter One : Carbohydrates

- 1- Definition of food-Nutritional requirements
- 2- Role of carbohydrates in the human body
- 3- Classification of Carbohydrates(Mono-oligo-poly)
- 4- Glycosidic linkage
- 5- Importance of starch and cellulose(fiber)

Chapter Two : Lipids

- 1- Definition
- 2- Role of lipids in the human body
- 3- Classification of lipids(Siple-Complex)
- 4- Saturated and unsaturated fats(X,Y)
- 5- Solid fats and liquid oils
- 6- Hydrogenation of fats- Iodine value
- 7- Cholesterol

Chapter Three : Proteins

- 1- Definition
- 2- α - amino acids- Essential and non-essential amino acids
- 3- Peptide bond
- 4- Simple and conjugated proteins
- 5- Protein structure(primary-secondary....)
- 6- protein Denaturation
- 7- Role of proteins in the human body
- 8- Biological value of proteins
- 9- Kwashiorkor

Chapter Four : Minerals And Vitamins

- 1- macro minerals and trace minerals
- 2- Role of each mineral in the human body
- 3- Hydro soluble and lipo soluble vitamins
- 4- The role of each vitamin in the human body

Chapter Five: Nutritional Requirements Of The Human Body

- 1- Energy Requirements-Growth and maintenance
- 2- Metabolism-Anabolism-Catabolism
- 3- Energy production of carbohydrates-lipids-proteins

