

Lebanon Evangelical School for Boys and Girls

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Thursday, January 05, 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. Please type using this template and then email the template to me using the following syntax in the Subject header of the email : MYEContent : Subject. Each email may contain as many of these sheets as is necessary. Each sheet should be in PDF format and named with the following syntax : MYEC_20112012_Class_Subject.pdf. Thus Jackie would have one called : MYEC_20112012_6A_Maths.PDF

Teacher : HAROUT PARSEGHIAN

Subject : BIOLOGY

Part I: Reproduction and Genetics

Chapter 1: Basic mechanisms of sexual reproduction

- Male and Female reproductive systems
- Diploid and haploid cells
- Meiosis
- Spermatogenesis
- Oogenesis
- Fertilization

Chapter 2: Transmission of genes and genetic recombination

- Hereditary traits and genes
- Transmission of allelic genes
- Interchromosomal recombination
- Intrachromosomal recombination

Chapter 3: Genetic variation and polymorphism

- Mutations and the environment
- Mutations and multiple alleles
- Polymorphic genes in a population
- Detection of genetic polymorphism
- Genetic identity of individuals

Chapter 5: Human Genetics

- Inheritance of genetic traits
- Autosomal diseases

- Sex-linked diseases
- Chromosomal abnormalities
- Prenatal diagnosis

Part II: Immunology

Chapter 6: Role and components of the immune system

- HLA: a major self marker
- Blood groups: another self marker
- The “non-self”
- Cells of the immune system
- Lymphoid organs
- Antigen recognition by B lymphocytes
- Antigen recognition by T lymphocytes

Chapter 7: The immune response

- Non-specific immune response
- Specific immune response
- Induction of the specific immune response
- Role of TH in the specific immune response
- Specific humoral immune response
- Specific cell-mediated immune response
- Immunological memory
- Diagnostic applications of antibody properties

Chapter 8: Disorders of the Immune System

- Immunodeficiencies
- Hypersensitivities
- Autoimmune diseases

