

Academic Year: 2016-2017

Class: SE2 Sc → SE3LS

Biology

Materials required for Make-Up Exam

National Textbook: Life Science Secondary Education Second Year Scientific Section

I- DNA, Genetic Information and Cell Cycle

- The karyotype
- Mitosis
- The Structure and the Chemical Components of Chromosomes
- Cell Cycle

II- Protein Synthesis and Enzymatic Activity

- Proteins, an association of amino acids
- The gene, structure and Information Unit
- Transcription
- Translation
- Fate of the Synthesized Proteins

SE3 (LS) extra Handouts

Chapter 3: genetic variation and Polymorphism

- Mutations and the Environment
- Mutations and Multiple Alleles
- Polmorphic Genes in a Population
- Detection of genetic Polymorphism
- Genetic Identity of Individuals