Biology 211 Exam 1 Study Guide

Chapter 1—Scientific Method and Origins/History of Life:

Vocabulary:
Abiogenesis
Hypothesis
Oxygen Revolution
Panspermia
Stromatolites
Theory

Concepts:
Difference between hypotheses and theories
Scientific Method
Five characteristics of science
Four stages of life
Fossil Record and notable dates
Three Domains and their characteristics

Chapter 36—Viruses:

Vocabulary:
Capsid
Envelope
Prions
Provirus
Satellites
Viroids

Concepts:
Are they living?
Virus structure
Uncoating
Types of possible nucleic acids found in viruses
Lytic cycle
Lysogenic cycle
Three hypotheses of virus origin

Chapter 29—Prokaryotes:

Vocabulary:
Autotroph
Binary Fission
Cyanobacteria
Endospore
Endotoxin
Exotoxin
Heterotroph
Obligate aerobe
Obligate anaerobe
Plasmid
Ubiquity

Concepts:
- Cell Structure and other characteristics
- Genetic Recombination (Transformation, Transduction, Conjugation)
- Gram Staining in bacteria
- Nitrogen Fixation
- Domain Archaea traits
  - Extremophile types
- Domain Bacteria traits
  - Beneficial bacteria
- Human diseases caused by prokaryotes
- Antibiotic resistance

Chapter 30—Protists:

Vocabulary:
- Diploid
- Haploid
- Meiosis
- Mitosis
- Vector

Concepts:
- Cell Structure and other general characteristics of Protists
- Endosymbiotic Theory and Evidence
- Alternation of Generations
- Specific traits of different Protists
- Mosquito as a vector