**1st Semester Final Exam Vocabulary**

**Unit 1: Scientific Inquiry**

Science

Observation

Hypothesis

Controlled Experiment

Constants

Independent Variable

Dependent Variable

Control Group

Experimental Group

Classification

Model

Theory

Qualitative Data

Quantitative Data

Inference

Prediction

**Unit 2: Ecology**

Biotic

Abiotic

Organism

DNA

Ecology

Species

Population

Community

Ecosystem

Biome

Biosphere

Environment

Autotroph

Heterotroph

Primary Producer

Photosynthesis

Consumer

Carnivore

Herbivore

Scavenger

Omnivore

Decomposer

Immigration

Emigration

Carrying capacity

Exponential growth

Logistic growth

Limiting factor

**Unit 3: Biochemistry**

Atom

Element

Monomer

Polymer

Carbohydrate

Monosaccharide

Lipid

Protein

Amino Acid

Activation Energy

Catalyst

Chemical Reaction  
Enzyme

Product

Reactant

Neutron

Proton

Electron

**Unit 4: Cells**

Vacuole

Mitochondria

Ribosome

Cell Membrane

Lysosome

Cytoplasm

Nucleus

Cell Wall

Nuclear Membrane

Golgi Body

Chloroplast

Nucleolus

Diffusion

Facilitated Diffusion

Osmosis

Passive Transport

Active Transport

Endocytosis

Exocytosis

Concentration Gradient

Hypertonic

Hypotonic

Isotonic

Equilibrium