REVIEW LIST FOR CP BIOLOGY
SEMESTER ONE FINAL EXAM

PH DRAGONFLY BOOK CHAPTERS = 1, 2, 7, 8, 9, 10, 11.1 & 11.4

- SCIENTIFIC METHOD
  - HYPOTHESIS
  - CONTROLLED EXPERIMENT
  - DATA
  - VARIABLES
  - THEORY
- CELL SPECIALIZATION
- HOMEOSTASIS
- LEVELS – ORGANISM
  - POPULATION
  - COMMUNITY
  - ECOSYSTEM
  - BIOSPHERE
- ATOMS
- MASS NUMBER
- ATOMIC NUMBER
- ISOTOPE
- VALENCE ELECTRONS
- COMPOUND
- COVALENT BOND
- IONS
- WATER MOLECULES
- SOLUTION
- pH
- ACID
- BASE
- MONOMER
- CHEMICAL REACTIONS
  - REACTANTS
  - PRODUCTS
  - ACTIVATION ENERGY
  - ENERGY
- ENZYMES
- CATALYSTS
- CELL THEORY
- MICROSCOPES
- PROKARYOTE
- EUKARYOTE
- ORGANELLE (STRUCTURE/FUNCTION)
  - NUCLEUS
  - RIBOSOME
  - LYSOSOME
  - MITOCHONDRIA
  - CHLOROPLAST – GRANUM
    - THYLAKOID
    - STROMA
  - CYTOSKELETON
  - CELL WALL
  - CELL MEMBRANE
    - CHANNEL PROTEINS
- DIFFUSION
- ACTIVE TRANSPORT
- OSMOSIS
- LEVELS - CELLS
  - TISSUES
  - ORGANS
  - ORGAN SYSTEMS
  - ORGANISM
- AUTOTROPH
- HETEROTROPH
- ATP (STRUCTURE/FUNCTION)
- PHOTOSYNTHESIS
  - EQUATION
  - LIGHT DEPENDENT (WHAT/WHERE)
  - LIGHT INDEPENDENT (WHAT/WHERE)
  - PIGMENTS
  - CHLOROPHYLL
  - PHOTOSYSTEM I & II
  - CALVIN CYCLE
  - EFFECTS OF – LIGHT
    - HUMIDITY
    - TEMPERATURE

- CELLULAR RESPIRATION
  - REACTION/EQUATION
  - NET ATP
  - GLYCOLYSIS (WHAT/WHERE)
  - PYRUVIC ACID
  - KREBS CYCLE (WHAT/WHERE)
- NADH
- $FADH_2$
- FERMENTATION
  - LACTIC ACID
  - ALCOHOLIC
- EXERCISE
  - ATP
  - LACTIC ACID
  - RESPIRATION
- RELATIONSHIP BETWEEN
  - PHOTOSYNTHESIS AND
  - RESPIRATION
- MITOSIS
  - SPINDLE FIBERS
  - STAGES
- CYCLIN
- SURFACE AREA/VOLUME RATIO
- MENDEL'S PEAS
  - P – TRUE BRED
  - F_1 – HYBRID
  - F_2 – RECESSIVE TRAIT
- CROSS-POLLINATION
- GENES
- PRINCIPLE OF DOMINANCE
- HOMOZYGOUS
- HAPLOID "N"
- DIPLOID
- MEIOSIS
  - TETRADS
  - CROSSING OVER
- LAB TESTS FOR
  - LIPIDS
  - PROTEINS
  - MONOSACCHARIDES
- SPECTROPHOTOMETRY LAB
- CHROMOTOGRAPHY LAB