

# Campbell Biology Final Exam Study Sheet

## A. Scientific Process & General Chemistry (Ch. 13)

1. Scientific Process: Observation → Hypothesis → Experiment → Data → Conclusion. Control vs. Experimental groups; Independent vs. Dependent variables.
2. Chemical Bonds: Covalent (share), Ionic (transfer), Hydrogen (weak, in water & DNA).
3. Water & pH: Polar molecule; Cohesion/Adhesion;  $\text{pH} < 7 = \text{acid}$ ,  $> 7 = \text{base}$ ,  $7 = \text{neutral}$ .

## B. Organic Chemistry (Ch. 45)

1. Functional Groups: Hydroxyl (-OH), Carboxyl (-COOH), Amino (-NH<sub>2</sub>), Phosphate (-PO<sub>4</sub>).
2. Macromolecules:
  - Carbs: Energy; Monomer = monosaccharides
  - Lipids: Energy storage; Monomer = fatty acids
  - Proteins: Structure/enzymes; Monomer = amino acids
  - Nucleic Acids: Genetic info; Monomer = nucleotides

## C. Cell Parts (Ch. 6)

1. Prokaryotes: No nucleus; Eukaryotes: Nucleus + organelles.
2. Organelles: Nucleus (DNA), Mitochondria (ATP), ER (synthesis), Golgi (modification), Lysosomes (digestion), Plant: chloroplasts, vacuole; Animal: centrioles.

## D. Transport (Ch. 7)

1. Passive (diffusion, osmosis), Active (needs ATP), Facilitated = uses protein.
2. Tonicity: Hypotonic (swell), Hypertonic (shrink), Isotonic (equal).

## E. Enzymes & Metabolism (Ch. 8)

1. Enzymes lower activation energy; Substrate binds active site; Inhibitors block.
2. ATP = energy; Releases energy when phosphate is removed.

## F. Cellular Respiration (Ch. 9)

1. Aerobic: Glycolysis → Krebs → ETC (~30-32 ATP); Anaerobic: Glycolysis → fermentation (2 ATP).
2. ETC in mitochondria: H<sup>+</sup> gradient powers ATP synthase.

## G. Photosynthesis (Ch. 10)

1. Light Reactions (ATP, NADPH, O<sub>2</sub>) in thylakoid; Calvin Cycle (glucose) in stroma.
2. Main product = glucose; Byproduct = oxygen.

## H. Mitosis (Ch. 12)

1. G<sub>1</sub> → S → G<sub>2</sub> → M; Checkpoints control division.
2. PMAT: Prophase, Metaphase, Anaphase, Telophase. Animal: cleavage furrow; Plant: cell plate.

## I. Meiosis (Ch. 13)

1. Crossing over in Prophase I; increases diversity.
2. Two divisions: I (homologs), II (sister chromatids); makes 4 gametes.

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