# Year 11 Biology Exam Preparation, Semester One, 2010

## Terminology

Plastid, nucleus, lysosome, mitochondria, endoplasmic reticulum, golgi apparatus, ribosomes, cytoplasm, cell membrane, vacuole, prokaryotic cell, eukaryotic cell, electron microscope, flagellum, cilia, cell theory, cell wall, cellulose, organelle, enzyme, active site, pH, denatured, protein, specific, catalyst, substrate, products, limiting factor, respiration, ATP, ADP, glucose, cristae, mitochondrion, matrix, photosynthesis, chloroplast, chlorophyll, turgid, flaccid, incisor, canine, premolar, molar, dental formula, diastema, epidermis, wilted, carbohydrate, polysacharrides, monosacharrides, starch, glycogen, amino acids, protein, lipids, phospholipids, cholesterol, fatty acids, glycerol, mineral ions (inorganic nutrients), fibre, cellulose, cellulase, digestion, absorption, omnivore, herbivore, carnivore, mutualism, vitamin, placental mammals, marsupials, monotremes, caecum, small intestine, villi, microvilli, foregut, hindgut, fermenter, stoma (stomata), autotroph, heterotroph, palisade mesophyll, spongy mesophyll, monotremes, marsupials, placentals, fermentation, flagellum, gizzard, diffusion, exocytosis, facilitated diffusion, active transport, osmosis, protein channel, phospholipid bilayer, glycoprotein.

Focus Areas

1. Know the equations for photosynthesis and respiration.
2. Revise over the biology of termites and their relationship with protistans.
3. Review the structure of skulls and be able to interpret a dental formula and predict the diet of an unknown animal based on its dentition.
4. Review the role and structure of enzymes in cells.
5. Be able to relate the organelles present in a cell to the particular function of a cell.
6. Revise the structure of a leaf in Transverse Section and be able to state the function of each part.
7. Revise the cell cycle with particular reference to the events that occur during interphase, mitosis and cytokinesis.
8. Revise where and why mitosis occurs in cells.
9. Review the major biomacromolecules of living organisms (proteins, nucleic acids, lipids and carbohydrates) and their building blocks
10. Review other important biomolecules (water, vitamins, mineral ions)
11. Revise the structure of the cell membrane and the functions it performs.
12. Revise what elements make up biomacromolecules.
13. Revise the methods by which substances can cross the cell membrane.

Reference Material

1. Selected worksheets from your Biozone Manual
2. PowerPoints presented in class
3. SACs that have been assessed during the semester.
4. Wiki