Vocabulary to know Biology Semester 2 Final Exam

Cellular Activity:

"Life at the Edge" lecture

cell membrane
lipid bilayer
lipid
protein
polar (hydrophilic)
non-polar (hydrophobic)
CO_2 (carbon dioxide)
O_2 (oxygen)
H_2O (water)

Cell Transport

diffusion
facilitated diffusion
osmosis
passive transport

Photosynthesis

chloroplast
chlorophyll
light energy
CO_2 (carbon dioxide)
O_2 (oxygen)
H_2O (water)
$C_6H_{12}O_6$ (glucose or sugar)
reactant
product
autotroph

Cellular Respiration Lecture

mitochondria
CO_2 (carbon dioxide)
O_2 (oxygen)
H_2O (water)
autotroph
heterotroph
ATP

Yeast Lab
aerobic
anaerobic
fermentation
product

Genetics:

Punnett Squares
Mendel
homozygous
heterozygous
genotype
phenotype
dominant
recessive
Punnett square

Meiosis Lecture
meiosis
mitosis
cell division
sex cells (gamates)
somatic cells (body cells)
chromosomes
diploid
haploid

DNA
deoxyribose
phosphate
bases: adenine, thymine, guanine, cytosine
hydrogen bonds
base pairing
replication

CENTRAL DOGMA
RNA
uracil
amino acid
protein
codon
transcription
translation

Genetic Mutations Lecture
Sickle Cell Anemia
Tay Sachs
Huntinton's
Cancer

Genetically Modified Organisms Lecture
Genetic engineering
plasmid
GMO

Evolution:

cladogram
common ancestor

forelimb structure
evidence for common ancestry

reproductive isolation
- geographic
- temporal
- behavioral
- mechanical

natural selection
environmental (or selection) pressure
variation
mutation
survival
reproduction (passing on of genes)

Laetoli footprints

Anatomy:

Circulatory System
heart
vena cava
pulmonary artery
pulmonary vein
aorta
capillaries

Respiratory System
lungs
bronchi
bronchioles
alveoli
gas exchange
CO_2 (carbon dioxide)
O_2 (oxygen)

Digestive system
esophagus
stomach
small intestine
villi
liver
gall bladder
pancreas
large intestine
digestion
absorption
enzymes
bile

Excretory System
kidney
bladder

Endocrine system
thyroid
adrenal gland
pancreas
blood sugar
insulin
glucagon
glycogen
adrenalin

Cellular Respiration
mitochondria
ATP