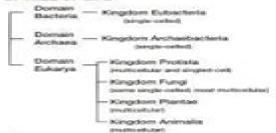
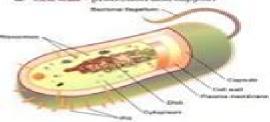
CLASSIFICATION

- A. LEVELS OF TAXONOMIC CLASSIFICATION (largest to smallest) Domain, Kingdom, Phylam, Class, Order, Family, Genus, Species
- B. TREE OF LIFE



CELL BIOLOGY

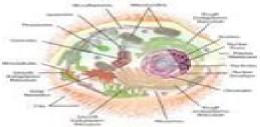
- A. CELL THEORY.
 - 1. All living things are made up of one or more erwelling.
 - The cell is the basic unit of structure and Parametricum.
 - 3. All cells come from existing cells.
- B. PROKARYOTIC CELL STRUCTURE
 - 1. Plasma membrane regulates what enters Blog selft review bent bent
 - Flagoritum locorroption.
 - Ribosomes sites of protein production GRNAI - protein synthesis
 - Pili used for attachment to other bacteria cut no a boost
 - 5. Planmid small circle of DNA separate from musics of announcement loops
 - 6. Cell wall protection and support



C. EUKARYOTIC CELL STRUCTURE

- L. Plasma membrane regulation of internal error formation and
- 2. Mitochoodria membrane enclosed energy producing reactions
- 3. Chieroplasts plants photosynthesis
- 4. Lysosomes storage for digestive enzymes
- 5. Somooth Endoplasmic reticulum (SER) peroneirs and lipid synthesis
- 6. Bough Estdoplannic Reticulum (EEE) produces, modifies, and transports proteins has ribosomes attached
- 7. Hibosomes particles composed of ribomucleic acid (RNA) - protein symthesis
- 8. Gold apparatus stores, modifies, and packages secretory products
- 9. Percelsones contain addative enzymes
- 16, Vacuaties fluid-filled spaces storage
- 11. Cell wall plants protection and support

- 12. Ceretriole, centrosome unimal cells cell distributes
- 13. Cilia, flagefla locomotion and ingestion
- 14. Nucleolus in nucleus ribosome synthesis: Amirrod Cell

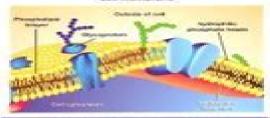


Plant Cell



- D. LIMITATIONS ON CELL SIZE As cell slaw increases, surface area-to-volume ratio increases. If the ratio becomes two high, the cell surface is not large enough to-carry out its function. It cannot allow materials into or out of the cell quickly enough to support necessary life processes.
- E. STRUCTURE OF THE CELL MEMBRANE

Carliff Milestroller persen-



EXCHANGE BETWEEN CELL AND ENVIRONMENT

- A. DIFFUSION movement of ions or molecules down a concentration gradient
- B. OSMOSIS movement of water molecules across a membrane down a concentration gradient
 - Instantic medium same solute concentra-Good as cell.
 - Hypertonic medium higher solute concentration than cell; cell leses H_sO (shrinks)
 - Hypotoeic medium lower solute concentration than cell; cell gains H₂O (espands)
- C. ACTIVE TRANSPORT movement against a concentration gradient; requires energy input from celli

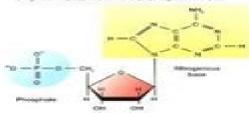
- D. ENDOCYTOSIS cell encloses material fincludes phagocytosis of solid particlesic a form of auctiliser financingworth
- E. EXOCYTOSIS cell discharges vacuoleenclosed material; a form of active transport

METABOLIC AND ENERGY-PRODUCING PATHWAYS

- A. ENZYME protein catalyst speeds reaction. by lowering energy of activition
 - Substrate molecule on which enzyme acts Coenayme - binds briefly to enzymes;
 - activates and assists enzymes
 - ATP adenosine triphosphate; energy stored in phosphate phosphate bonds; energy peleased when bonds are hydrolyned.
 - 4. NAD micotinamide adenine dinacleotide; part of electron transport system.
- B. PHOTOSYNTHESIS chloroplasts 500; + $6H_*O + (light, chilosophyll) \rightarrow C_*H_*O_* + 6O_*$
- C. CELLULAR RESPIRATION generates ATP
 - 1. Glycolysis initial stage of respiration cytoplasm - anaerobic - activation of glocover-(by ATP), with production of pyravate inct. government 2 ATPS
 - 2. Kreins (citric acid) cycle accord stage of respiration - mitochondria - aerobic pyraevate broken down with production of CO., 2 ATP, and many electron carriers
 - 3. Electron (hydrogen) transport chain third stage of respication - mitochondria aerobic - hydrogen and electrons stripped from carriers with production of 32 ATP

DIMA

- A. NUCLEOTIDES subunits of nucleic acids.
 - B. Pftwo-spiluster
 - Sugar (deoxys/bose in DNA, r/bose in RNA)
 - Nitrogenous base (four in DNA): Adeniese (A). Thymine (T), Guanine (G), Cytosine (C)



- B. STRUCTURE OF DNA
 - 1. Sugar-phosphate groups sugar is decoyri-
 - (Notice threat thickers)
 - Double holix sugar-phosphate groups form hackbone (sides of 'ladder'), pairs of nucleo-tides form 'rungs of ladder'; mucleotide pairs joined by hydrogen bonds: A always pairs with T. C allways pairs with G

MOLECULAR GENETICS

- A. DEFINITIONS
 - Gene a location on a chromosome; typically order for one polypeptide
 - Albelos different forms of a gene
 - Chromosome structure made up of DNA and associated proteins
 - Genotype genetic makeup of an organism Phenotype - visible expression of genetic

Stars Ninth Grade Biology Study Guide

Nancy Fichtman Dana, Diane Yendol-Hoppey, Logan Rutten **Stars Ninth Grade Biology Study Guide:**

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