BIO214 is the movement of ions or molecules from regions of higher concentration to regions of lower concentration.
Diffusion Liposomes are circular pockets that are enclosed by a
Lipid layer Proteins within the cell membrane normally transport chemicals and across the membrane.
Information Antigens are present on cell membrane because they are receptors that aid cell to cell
Communication signal sequence of amino acids directs proteins to the endoplasmic reticulum, which inserts the proteins into a lipid bilayer.
N-terminus permeability refers to the ease with which molecules hook unto it.
Membrane Homeoviscous adaptation is the ability of some organisms to regulate the fluidity of their cell membranes by altering composition.
Lipid The science that describes how organisms function and survive in continually changing environments is called
Physiology The process of removing waste materials from cells is known as
Exocytosis Peripheral proteins are proteins that are bounded to the membrane by electrostatic interactions and with the hydrophilic phospholipid heads.
Hydrogen bonding The is an elaboration of the plasma membrane.
Mesosome The protists and bacteria that live inside the gut of termite and help in digesting its woody diet are referred to as
Endosymbionts Increased absorption rate of by the epithelial cells is possible because of microvilli on the apical surfaces of the epithelial cells.
Nutrients Plasma membrane serves as selective for the import and export of materials between the cell and its surrounding environment.
Barrier A system is an association of that have a common function.
Organs Levels of cellular organization together with the resultant tissues-organs-and- systems form the process.
Physiological molecules are used to add amino acids during protein translation.
Transfer RNA Mitochondria generate the cell's energy by

Oxidative phosphorylation The component of a biological cell that creates proteins from all amino acids and RNA representing the protein is
Ribosome They digest excess or worn-out organelles, food particles, and engulfed viruses or bacteria. They are and
Lysosomes and Peroxisomes Correct folding of newly-made proteins is made possible by several proteins of the endoplasmic reticulum
Chaperone Protoplasm is composed of a mixture of small molecules and
Macromolecules are specialized lipid-storage cells, which are also found in a range of other cell types.
Adipocytes involves the attachment of oligosaccharides.
Glycosylation are organelles on which protein synthesis takes place.
Ribosomes The is a biological membrane that separates the interior of all cells from the outside environment. It is selectively-permeable to ions and organic molecules, and controls the movement of substances in and out of cells.
Cell membrane Crystals of calcium oxalate or silicon dioxide in plants, granules of energy- storage materials such as starch, glycogen, or polyhydroxybutyrate are all inclusions.
cytoplasmic In gram-negative bacteria, the region outside the plasma membrane but inside the outer membrane is the
Periplasm Proteins that are transported by the endoplasmic reticulum and from there throughout the cell are marked with an address tag called a
Signal sequence The movement of substances across the membrane can be, occurring without the input of cellular energy.
Passive The membrane of a polarized cell is the surface of the plasma membrane that forms its basal and lateral surfaces.
basolateral proteins interact widely with hydrocarbon chains of membrane lipids and can be released by agents that compete for the same nonpolar interactions.
Integral Paired cylindrical structures located near the nucleus, which play an important role in cell division are referred to as
Centrioles The is an elaboration of the plasma membrane; a sort of rosette of ruffled membrane intruding into the cell. Not all prokaryotic cells have it.

Mesosome The cell membrane consists of classes of lipidsamphipathic.
three Which of the following molecules would pass through the phospholipid bilayer easily?
Benzene
molecules are used to add amino acids during protein translation.
Transfer RNA (tRNA)
A human cell has genetic material contained in the and genomes
nuclear; mitochondrial
Which of the following is not an integral membrane protein?
phospholipid
Which of the following is not an amphipathic lipid?
Acids
How do the length and degree of unsaturation of fatty acid affect cell membrane fluidity?
Unsaturated lipids create a kink, which prevents the fatty acids from packing together as tightly, thus decreasing the melting temperature of the cell membrane
During osmosis, the solution that gains water is $__$ while the solution that loses the water is $__$.
Hypertonic; Hypotonic
In facilitated diffusion, the rate of diffusion across a membrane, from a high concentration to a lower concentration is accelerated by the action membrane called, that act as carrier molecules and aid in diffusion.
Permeases
Simple diffusion can be accomplished by the passage of solutes through transmembrane proteins called channel proteins.
tunnel-like
The phospholipic layer is so called because made mostly from a double layer of lipids; $___$ and $___$ molecules.
hydrophobic fat-like; hydrophilic phosphorus
Milk sugar is
a disaccharide composed of glucose and the monosaccharide galactose
The $\underline{}$ is a specialized region within the nucleus where ribosome subunits are assembled.
nucleolus
Fluid mosaic membrane is another term for

Phospholipid bilayer Which of the following is not a component of the eukaryotic cytoskeleton? eukaryases In humans the nuclear genome is divided into 23 _____. chromosomes In the movement of substances across the membrane, the cell is required to expend energy. What type of movement does this refer to Active Which of the following is not a constituent of cell cytoplasm? nucleus Which of the following is not correct about ribosomes? Ribosomes are divided into several subunits Transport through the nuclear pore complexes is active; meaning that it requires All of the options Splicing factors are needed to: cut out intron regions and splice the exon regions Which of the following are not molecules and macromolecular assemblies exported from the nucleus? histones Organelles that are modified chloroplasts are broadly called ____, and are involved in energy storage through photosynthesis plastids The primary function of the golgi apparatus include the following except ____ delivery of nucleotide sugars from the cytosol Which of the following is a similarity between mitochondria and chloroplasts? All of the options Why are ribosomes classified as ribozymes? . Ribosomes are classified as ribozymes because the ribosomal RNA seems to be most important for the peptidyl transferase activity that links amino acids together Mitochondrial and chloroplast DNA are similar to Prokaryotic DNA in following ways except ____. Mitochonria have their own DNA duplicated in the nucleus in similar manner with prokaryotic DNA

Depending on the enzymatic needs of a cell, massive changes can occur in the

protein content without any noticeable ____ changes.

structural
Which of the following is a step in gluconeogenesis?
Conversion of glucose-6-phosphate to glucose
The smooth endoplasmic reticulum while the Sacroplasmic reticulum stores
synthesizes molecules; and pumps calcium
Cytoplasmic are small particles of insoluble substances suspended in the cytosol.
Inclusions
Which of the following is not a cytoplasmic inclusion?
Organelles
DNA of the nucleus with its associated proteins are collectively referred to as
chromatin
Prokaryotic genetic material is organized in a simple circular DNA molecule in the $\underline{\hspace{1cm}}$
region of the cytoplasmnucleoid
Retroviruses have as their genetic material.
RNA
Foreign DNA can be artificially introduced into the cell by a process called
transfection
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