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diffusion is a physical process that refers to the net movement of molecules from a region of high concentration to one of lower concentration the material that diffuses could be a solid liquid or gas similarly the medium in which diffusion occurs could also be in one of the three physical states diffusion is the net movement of anything for example atoms ions molecules energy generally from a region of higher concentration to a region of lower concentration diffusion is driven by a gradient in gibbs free energy or chemical potential simple diffusion is the movement of molecules through a cell membrane without using the channels formed by integral membrane protein facilitated diffusion is the movement of molecules through those channels diffusion is defined as the net movement of molecules from an area of greater concentration to an area of lesser concentration the molecules in a gas a liquid or a solid are in constant motion due to their kinetic energy molecules are in constant movement and collide with each other diffusion occurs when particles move from an area of high concentration to low concentration creating a concentration gradient this natural energy free process occurs due to the random movement of particles with a higher chance of particles moving from the high concentration side diffusion process resulting from random motion of molecules by which there is a net flow of matter from a region of high concentration to a region of low concentration a familiar example is the perfume of a flower that quickly permeates the still air of a room diffusion refers to the movement of molecules from an area of high concentration to an area of lower concentration osmosis is a type of diffusion specifically for water molecules moving across a semi permeable membrane a concentration gradient is the difference in concentration of a substance between two areas which drives diffusion or osmosis diffusion is the tendency of molecules to spread out in order to occupy an available space gasses and molecules in a liquid have a tendency to diffuse from a more concentrated environment to a less concentrated environment passive transport is the diffusion of substances across a membrane diffusion is a process of passive transport in which molecules move from an area of higher concentration to one of lower concentration diffusion is the net passive movement of molecules or particles from regions of higher to regions of lower concentration for diffusion to occur there must be a concentration gradient the dissimilarity in the amounts of solutes particles or molecules between the two regions will cause them to move between the two regions diffusion is defined as the movement of atoms ions and molecules from a region of high concentration to a region of low concentration or down their concentration gradient the word diffusion is derived from the latin word diffundere meaning to spread out diffusion what causes diffusion and what happens during the process diffusion is the process by which particles of one substance spread out through the particles of another substance diffusion is how smells spread out through the air and how concentrated diffusion is a process where molecules of a material move from an area of high concentration where there

are many molecules to an area of low concentration where there are fewer molecules 1 until it has reached equilibrium molecules evenly spread diffusion usually happens in a mixture in gas a liquid and occasionally colloids diffusion is the process of movement of molecules under a concentration gradient it is an important process occurring in all living beings diffusion helps in the movement of substances in and out of the cells the molecules move from a region of higher concentration to a region of lower concentration until the concentration becomes equal in diffusion particles move randomly beginning in an area of higher concentration and ending in an area of lower concentration this principle is fundamental throughout science and is very important to how the human body and other living things function key concepts terms you should know key points both osmosis and diffusion are passive transport processes that equalize concentration in other words no energy needs to be supplied to the system for them to occur in diffusion particles move from higher concentration to lower concentration until equilibrium is reached by anne marie helmenstine ph d updated on july 29 2019 diffusion is the movement of a fluid from an area of higher concentration to an area of lower concentration diffusion is a result of the kinetic properties of particles of matter the particles will mix until they are evenly distributed 1 fick s second law prediction of change in concentration gradient with time due to diffusion a diffusion process that obeys fick s laws is called normal or fickian diffusion otherwise it is called anomalous diffusion or non fickian diffusion osmosis is a selective diffusion process driven by the internal energy of the solvent molecules it is convenient to express the available energy per unit volume in terms of osmotic pressure it is customary to express this tendency toward solvent transport in pressure units relative to the pure solvent if pure water were on both sides of reaction diffusion simulation a common way to model how molecules move within the cell involves reaction diffusion simulation basic rules molecules move around by diffusion when two molecules come close together they have some probability of reacting to combine or modify one another two implementation strategies

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