TRANSPORT IN ALANTS Transport in Plants Long Distance Trans port Short Distance Transport Plant-Water Relations Passive Xylem Phloem Plasmolysis minerals mass flow -Osmotic pressure Transpira. facilitated pumps simple diffusion hypothesis Cell to cell tional pull Root pressure →Symport Guttation Some charmels are always open, Some can be controlled. Tuansport in Plants membranes of plastids, mitochondria, Short Distance Long Distance xylem phloem and some bacteria, allowing even Passive Active small proteins to pass-Diffusion facilitated → Water Chamel - made up of 8 different aquapouins. 1) Diffusion - No energy used. 3 Passive Sympouts and Antiports. of cell to cell or in intracellular spaces - Caville protions -> Slow → Independent of living system. -> Substance moves from high cone. to Uniport Antiport Symport lower conc. - Only means of goscous movement. (4) Active Transport Diffusion rates affected by → Use enougy / ATP to pump molecules -Gradient of Concentration against a conc. quadient. Juphill Transport - permeability of membrane - Temperature → By protiers - Pressure (5) Comparison-> Size of Substance. active Diffusion facilitated property 2) Facilitated Diffusion -Hansp → Passive diffusion occuring with proteins help of proteins. Selective X - For hydrophilic moitics. Transport × uprill Caville X X requirement protin name







