Cheatography

LIVING ORGANIZMS

All living organisms carry out seven life processes:-

Movement, Respiration, Sensitivity, Growth, Reproduction, Excretion, Nutrition (They all form the word MRS.GREN)

Any living organism is made of **cells**

All cells are made of tissues

All tissues are made of organs

All organs are made of organ systems

DEFENITIONS

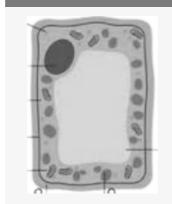
Life processes	A process that something does to stay alive. The life process that happens in all living things are (movement, reproduction, sensit- ivity, growth, respiration, excretion, and nutrition)
Movement	Going from one place to another, all organisms move or part of the
Respir- ation	A process in which substances release energy for an organism to use. All organisms respire. There are, however, different forms of respiration
Sensitivity	the ability to detect things in the surrounding. All organisms can sense certain changes in their surroundings
Growth	Increases in size. All organisms grow
Reprod- uction	A process in which organisms make more organisms like them. All organisms reproduce
Excretion	Getting rid of waste. All organisms excrete
Nutrition	is the substances that help organisms respire and grow. All organisms need nutrition

FUNCTIONS OF CELLS

Animal cells	It has a nucleus, cytoplasm, cell membrane, mitochondria, and ribosomes	
plant cell	contains a cell wall, chloroplast, and large vacuole + cell membrane, nucleus, cytoplasm	
Nucleus	Control the cell and gens	
Cytoplasm	Where the chemical reactions happen	
cell membrane	controls what goes in and out of the cell and gives the cell its shape	
Mitochondria	Helps in respiration	
Ribosomes	Makes energy	
Vacuole	Contains cell sap	
cell wall	made of cellulose that supports the cell	
Chloroplast	Absorbs sunlight for the photosynthesis process	

DIFFUSION

PLANT CELLS



It consists of anucleus, cell membrane, cytoplasm, cell wall, vacuole, chloroplasts Gas exchange at the alveoli oxygen from the air to the blood, carbon dioxide from the blood to the air.

Gas exchange for photosynthesis — carbon dioxide from the air to leaf, oxygen from leaf to air.

Gas exchange for respiration oxygen from the blood to tissue cells, carbon dioxide in the opposite direction.

A high Diffusion Rate leads to a short distance, large surface area, and big concentration difference.

High temperatures **increase** diffusion; large molecules **slow** diffusion.

SURFACE AREA: VOLUME RATIO (SA: V)

Surface area of a cuboid= length x height / length x width / height x width Volume of a cuboid = length x width x height SA : V RATIO = surface area / volume

ANIMAL CELLS



It consists of a nucleus, cell membrane, cytoplasm,mitochondria, ribosomes



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