Period 5 at. 28

Review Questions:

1. Match the cell parts in the first column with the descriptions in the second column. Each cell part and description should be used only once.

Cell Structure	Description
-A. Ribesome	S/O Anchors organelles, holds nucleus in place
B. Golgi apparatus	Released by the Golgi apparatus, travels to the surface
C. Nucleolus	of the cell to release its contents
D. Microtubules	A Synthesizes proteins
E. Cell membrane	_C Where ribosomes are made
F. Rough ER	Controls cell function and site of DNA storage
G. Centriole	Allows movement of organelles within the cell
It. Transport vesicles	H Shuttles proteins between organelles
-I. Mitochondrion	Provides storage of water, chemicals, and wastes in
J. Flagella	plant cells
K. Nucleus	E Controls passage of molecules in and out of the cell
L. Smooth ER	Where proteins are made
M. Cell-wall	G Organizes the spindle in cell division
-N. Lysosome	P Converts solar energy to useable cell energy
O. Microfilament	S/O Allows contraction and movement of cells
P. Chloroplast	Allows the cell to move in space
Q. Central vacuole	Synthesizes and transports lipids
R. Chromosome	M Shapes plant cells
S. Intermediate	8 Modifies and exports proteins
f ilament s	Converts the energy from nutrients into ATP
T. Organelle	Digests food vacuoles and damaged organelles
U. Secretory vesicles	R Stores genetic information, located in nucleus
	T General name for structures in the cytoplasm
	in the cytopiasm

1. plants have chloroplasts 4. Plant cells have I large eventral vaccole 2. plant cells have cell 5. animal cells have lysosomes 2. plant cells have cent of animal cells have flagella

3. animal cells have mitalization plant cells have flagella

2. List seven differences between plant and animal cells.

3. animal cells have mitalization plant cells are more boxy (defined shaped)

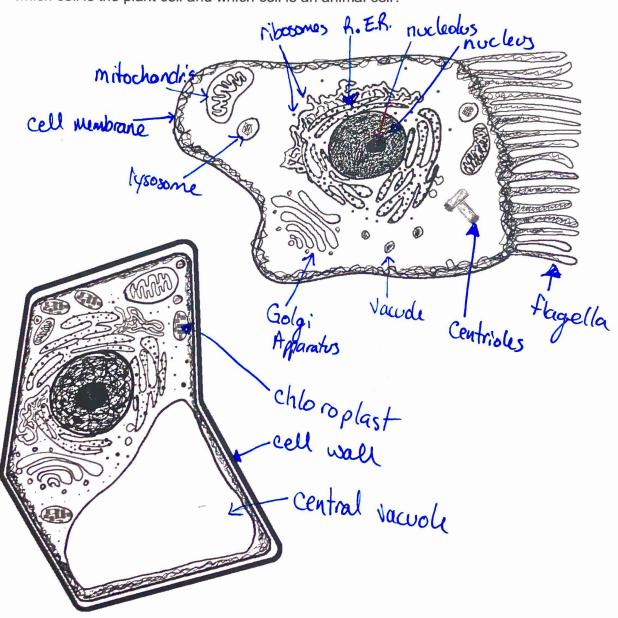
3. Describe the steps by which a protein is first synthesized, and then exported by a cell. (1) made by ribosomes (2) Transport resides more them to Golgi A. 3 Golgi A. modifiles

4. Is the plasma membrane the outer boundary of all cells? exports. No. Plant cells have the cell wall around cell membranes.

5. How might it benefit an organism to have the nucleus near the centre of its cells?

Protection and to help send signals

6. Label all the major structures in each of the following diagrams. Can you determine which cell is the plant cell and which cell is an animal cell?



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