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ANSWER KEY-----Chapter 2-3 Study Guide

1. **PASSIVE TRANSPORT**-- The movement of material through a cell membrane without using energy.
2. **DIFFUSION**-- The process by which molecules move from an area of high concentration to low concentration.
3. **OSMOSIS**-- The diffusion of water molecules through a selectively permeable membrane.
4. **ACTIVE TRANSPORT**-- The movement of substances through a cell membrane using energy.
5. **EUKARYOTE**-- Cell--A cell that has a nucleus.
6. **PROKARYOTE**-- Cell--Cells that do not have a nucleus.
7. **ORGANELLE**--A tiny cell structure that carries out a specific function within the cell.
8. **CELL WALL**-- A rigid layer of nonliving material that surrounds the cells some organisms
9. **CELL MEMBRANE**-- A cell structure that controls which substances can enter or leave the cell; like the screen on a window.
10. **NUCLEUS**-- A cell structure that contains the chemical instructions that direct all the cell's activities
11. **CHROMATIN**--Material in cells that contains DNA and carries genetic information; located in the nucleus.
12. **CYTOPLASM**--The region of the cell between the cell membrane and the nucleus.
13. **MITOCHONDRION**-- Rod-shaped cell structure that produce most of the energy needed to carry out the cell's functions; the "powerhouse" of the cell.
14. **ENDOPLASMIC RETICULUM**-- A cell structure that forms a maze of passageways in which proteins and other materials are carried from one part of the cell to another.
15. **RIBOSOME**--A tiny structure in the cytoplasm of a cell where proteins are made; look like tiny dots.
16. **GOULGE BODY**-- A structure in a cell that receives proteins and other newly formed materials from the endoplasmic reticulum, packages them, and distributes them to other parts of the cell
17. **CHLOROPLAST**-- A structure in the cells of plants and some other organisms that captures energy from sunlight and uses it to produce food.
18. **LYSOSOME**--A small round cell structure that contains chemicals that break down large food particles into smaller ones
19. Where do you find specialized cells? **IN MULTI-CELLULAR ORGANISMS**
20. What does a plant cell have that an animal cell does not? **CELL WALL, CHLOROPLAST,**

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