

Chapter 7: Cell Structure and Function

Central Concept: Cells have specific structures and functions that make them distinctive. Processes in a cell can be classified broadly as growth, maintenance, and reproduction.

State Standards:

- 7.1. State the cell parts / organelles (Plasma membrane, nuclear envelope, nucleolus, nucleoplasm, cytoplasm, microtubules, endoplasmic reticulum, Golgi apparatus, lysosomes, ribosomes, vesicles, cell wall, chloroplast, cytoskeleton, centriole, vesicle, organelle, pseudopod) and their functions. Explain the role of cell membranes as a highly selective barrier (diffusion, osmosis, facilitated diffusion, active transport).
- 7.2. Compare and contrast, at the cellular level, the general structures and degrees of complexity of prokaryotes and eukaryotes.

Key Terms:

Cell
Cell Theory
Cell Membrane
Nucleus
Eukaryote
Prokaryote
Scanning Electron Microscope
Transmission Electron Microscope
Microscope
Compound Light Microscope
Cell Wall
Cytoplasm
Organelle

Microtubule
Lysosome
Cytoskeleton
Centriole
Vesicle
Endoplasmic Reticulum
Golgi Apparatus
Chloroplast
Microtubules
Cell Wall
Lipid Bilayer
Selectively Permeable
Diffusion

Facilitated Diffusion
Aquaporin
Osmosis
Osmotic Pressure
Hypotonic
Hypotonic
Osmotic Pressure
Homeostasis
Tonic
Osmosis
Osmotic Pressure
Endoplasmic Reticulum
Kinetics
Endoplasmic Reticulum Sign

More about: See table 1:

1. State the three parts of the cell theory.
2. Describe how the different types of microscopes work. (Light Microscope, SEM, TEM)
3. Distinguish between prokaryotes and eukaryotes.
4. Describe the structure and functions of the cell nucleus.
5. Describe the role of microtubules, endoplasmic reticulum, and Golgi apparatus in making proteins.
6. Identify the role of microtubules, endoplasmic reticulum, and Golgi apparatus in making proteins.
7. Describe the functions of the chloroplasts and microtubules in the cell.
8. Describe the structure and functions of the cell membrane.
9. Describe the term passive transport.
10. Describe the term active transport.
11. Explain what is meant by the term selective permeability.
12. Explain how microtubules organize microtubule interactions.
13. Explain how microtubules organize microtubule interactions.

Chapter 7 A View Of The Cell Study Guide Answers

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sense and therefore become more easily memorable for the experts Clearly meaningful patterns are easier to remember and understand than random arrangements and Psychology applies this by presenting the field of psychology in meaningful patterns to enhance comprehension These concepts are then applied to readers own lives study skills and the world around them Finally Psychology integrates a cross cultural and multicultural perspective to make psychology meaningful for everyone For anyone interested in Introductory Psychology *Study Guide for Psychology, Understanding Behavior* Paul B. Paulus, Robert A. Baron, 1980

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