

Cell Structure Quiz PDF

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What are the roles of the cytoskeleton? (Select all that apply)

Structural support

Cell movement

Photosynthesis

Cell division

Explain the role of the nucleus in eukaryotic cells.

Describe the differences between prokaryotic and eukaryotic cells.

Why is the process of cellular respiration crucial for cell survival?

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Discuss the process of protein synthesis, including the roles of the nucleus and ribosomes.

How do plant cells maintain their structure and rigidity?

Which of the following is a function of lysosomes?

- Photosynthesis
- O Protein synthesis
- O Digestion of cellular waste
- Lipid synthesis

Which of the following are found in both plant and animal cells? (Select all that apply)

Nucleus

- Cell wall
- Mitochondria
- Chloroplasts

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What is the main function of the cell wall in plant cells?

- Energy production
- Photosynthesis
- Structural support
- Protein synthesis

Which process occurs in the chloroplasts of plant cells?

- Cellular respiration
- Photosynthesis
- O Protein synthesis
- Lipid synthesis

Which organelles contain their own DNA? (Select all that apply)

- Nucleus
- Mitochondria
- Chloroplasts
- Ribosomes

What structure surrounds and protects the cell?

- Cell wall
- Cell membrane
- ◯ Cytoplasm

Which of the following is a characteristic of prokaryotic cells?

- Presence of a nucleus
- Lack of membrane-bound organelles
- C Large central vacuole
- O Presence of chloroplasts

Which structures are involved in protein synthesis? (Select all that apply)

- Ribosomes
- Golgi apparatus
- Rough endoplasmic reticulum

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Lysosomes

Which organelle is responsible for modifying and packaging proteins?

- Endoplasmic reticulum
- Golgi apparatus
- Lysosome
- Ribosome

Which organelle is known as the powerhouse of the cell?

- Mitochondria
- Ribosome
- Golgi apparatus

What is the significance of the cell membrane's semi-permeable nature?

Which processes are considered passive transport? (Select all that apply)

- Diffusion
- Osmosis
- Active transport
- Facilitated diffusion

What are the main components of the cell membrane? (Select all that apply)

- Phospholipids
- Proteins
- Nucleic acids
- Carbohydrates

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What is the basic unit of life?

◯ Atom

- \bigcirc Molecule
- ⊖ Cell
- ◯ Tissue

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