

Cell Organelles Quiz PDF

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What is the primary function of ribosomes?

- Lipid synthesis
- Protein synthesis
- DNA replication
- Photosynthesis

Explain the role of the cytoskeleton in a cell.

What are the differences between the rough and smooth endoplasmic reticulum?

Where is the genetic material of a cell primarily located?

- Golgi Apparatus
- Ribosome
- Nucleus

- Mitochondria

Why is the cell membrane considered selectively permeable, and how does this property benefit the cell?

Which organelle is responsible for photosynthesis in plant cells?

- Chloroplast
 Mitochondria
 Lysosome
 Nucleus

Discuss the significance of chloroplasts in plant cells.

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

- Nucleus
 Mitochondria
 Chloroplasts
 Ribosomes

Which of the following are components of the endomembrane system? (Select all that apply)

- Nucleus
 Endoplasmic Reticulum

- Golgi Apparatus
- Mitochondria

Which organelle modifies and packages proteins for secretion?

- Ribosome
- Golgi Apparatus
- Lysosome
- Smooth ER

Which organelles are involved in energy production? (Select all that apply)

- Mitochondria
- Chloroplasts
- Ribosomes
- Lysosomes

Which of the following organelles are involved in protein processing and transport? (Select all that apply)

- Ribosomes
- Rough ER
- Golgi Apparatus
- Smooth ER

Which structures are found in plant cells but not in animal cells? (Select all that apply)

- Cell wall
- Chloroplasts
- Centrioles
- Large central vacuole

Which organelle is known as the "powerhouse of the cell"?

- Nucleus
- Ribosome
- mitochondria
- Golgi Apparatus

Which organelle is involved in detoxifying harmful substances?

- Lysosome
- Peroxisome
- Golgi Apparatus
- Smooth ER

How do lysosomes contribute to cellular homeostasis?

Describe the process by which proteins are synthesized and transported out of the cell.

What structure provides plant cells with rigidity and protection?

- Cell membrane
- Cytoskeleton
- Cell wall
- Endoplasmic reticulum

What functions are associated with the Golgi apparatus? (Select all that apply)

- Protein modification
- Lipid synthesis
- Packaging proteins
- Photosynthesis

What is the primary function of the smooth endoplasmic reticulum?

- Protein synthesis
- Lipid synthesis
- DNA replication
- Photosynthesis