

Unit 2 Cell Biology Quiz Questions and Answers PDF

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What is the primary function of ribosomes in a cell?

- Energy production
- Protein synthesis ✓
- DNA replication
- Lipid synthesis

Ribosomes are essential cellular structures that synthesize proteins by translating messenger RNA (mRNA) into polypeptide chains. They play a crucial role in the expression of genes and the overall functioning of the cell.

Which of the following organelles are found in both plant and animal cells?

- Nucleus ✓
- Chloroplast
- Mitochondria ✓
- Cell Wall

Both plant and animal cells contain organelles such as the nucleus, mitochondria, and endoplasmic reticulum. These organelles perform essential functions necessary for cell survival and operation.

Explain the differences between prokaryotic and eukaryotic cells, focusing on their structural and functional distinctions.

Prokaryotic cells are unicellular organisms that do not have a defined nucleus or organelles, while eukaryotic cells are more complex, containing a nucleus and various organelles that

| **perform specific functions.**