

Biology Part 2 Quiz PDF

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What is the primary function of ribosomes in a cell?

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

What is the primary source of energy for the process of photosynthesis?

- Glucose
- ATP
- Sunlight
- Oxygen

Which cycles are considered biogeochemical cycles?

- Carbon cycle
- Water cycle
- Nitrogen cycle
- Oxygen cycle

Which organ system is primarily responsible for transporting nutrients and oxygen to cells?

- Nervous system
- Digestiv system
- Circulatory system
- Respiratory system

Which type of mutation involves the addition of one or more nucleotide base pairs into a DNA sequence?

- Deletion

- Insertion
- Substitution
- Translocation

Which of the following is a characteristic of prokaryotic cells?

- Presence of a nucleus
- Membrane-bound organelles
- Circular DNA
- Multicellular structure

Which process describes the division of a cell's nucleus into two genetically identical nuclei?

- Meiosis
- Mitosis
- Cytokinesis
- Binary fission

Which molecule is responsible for carrying genetic information in cells?

- RNA
- DNA
- Protein
- Lipid

How does the immune system respond to a pathogen entering the body, and what are the key components involved in this response?

What are the main differences between mitosis and meiosis in terms of their processes and outcomes?

Which of the following are components of an ecosystem?

- Producers
- Consumers
- Decomposer
- Predators

How do human activities impact the carbon cycle, and what are the potential consequences for ecosystems?

Which body systems are involved in maintaining homeostasis?

- Endocrine system
- Nervous system
- Digestiv system
- Muscular system

Which of the following are evidence for evolution?

- Fossil records
- Comparative anatomy
- Genetic drift
- Molecular biology

Explain the role of natural selection in the process of evolution.

Which of the following are types of symbiotic relationships?

- Mutualism
- Parasitism
- Commensalism
- Predation

Which of the following is a product of cellular respiration?

- Oxygen
- Glucose
- Carbon dioxide
- Chlorophyll

Discuss the ethical considerations surrounding the use of genetic engineering in agriculture.

Which processes are involved in gene expression?

- Transcription
- Translation
- Replication
- Mutation

Describe the process of DNA replication and its significance in cell division.

