

5 1 section assessment biology answer key

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5.1 Section Assessment Biology Answer Key

Question 1:

What are the four main macromolecules found in living organisms, and what are their functions?

Answer:

- **Carbohydrates:** Energy storage and structural support
- **Proteins:** Building and repairing tissues, enzymes
- **Lipids:** Energy storage, insulation, hormones
- **Nucleic acids:** Genetic information, protein synthesis

Question 2:

Describe the levels of organization in living organisms, from the simplest to the most complex.

Answer:

- Atom
- Molecule
- Organelle
- Cell
- Tissue
- Organ

- **System**
- **Organism**

Question 3:

What is the difference between prokaryotic and eukaryotic cells?

Answer:

Prokaryotic Cells:

- No nucleus or membrane-bound organelles
- Circular DNA
- Smaller size

Eukaryotic Cells:

- Nucleus and membrane-bound organelles
- Linear DNA
- Larger size

Question 4:

Explain the process of photosynthesis, including its inputs and outputs.

Answer:

Inputs:

- Sunlight
- Carbon dioxide
- Water

Outputs:

- Glucose (sugar)
- Oxygen

Question 5:

Describe the role of DNA in the inheritance and expression of traits.

Answer:

- DNA is a molecule that contains genetic information in the form of genes.
- Genes code for proteins, which determine traits.
- DNA is replicated during cell division, ensuring that each new cell has a complete copy of the genetic information.
- Proteins are made by using the information in DNA as a template.

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