

EXAM 1 REVIEW

CHAPTER 1: Studying Life

1. How many years ago did life on Earth evolve? **4 billion years ago.**
2. The following statements are true of ALL living organisms EXCEPT
 - a. They convert molecules from the environment into new biological molecules.
 - b. Self-regulate their internal environment
 - c. **Transform sunlight energy into biological energy**
 - d. Made up of a common set of chemical compounds
 - e. Show similarities in gene sequences, amino acids, and genetic code

Organisms = Living things. We are descendants of a common ancestor.

- ❖ Made of chemical compounds.
 - ❖ Made up of cells.
 - ❖ Synthesize new molecules from environment.
 - ❖ Energy from environment to do work.
 - ❖ Regulate internal environment.
 - ❖ Genetic information.
 - ❖ Build proteins.
 - ❖ Exist in populations.
3. Prokaryotic cells are found in the domain(s)
 - a. **Bacteria and Archaea**
 - b. Bacteria and Eukarya
 - c. Bacteria only
 - d. Fungi and Archaea
 - e. Eukarya and Archaea
 4. Identify the INCORRECT statement.
 - a. When cells reproduce, the genome is replicated. **Mutations can occur.**
 - b. Homeostasis is the maintenance of a narrow range of conditions that support life.
 - c. Organisms acquire nutrients from their environment.
 - d. A cell membrane is present in both eukaryotic and prokaryotic cells.
 - e. **In an individual's body, the genome of a liver is very different from that of a kidney cell.**

Genome: Complete set of genetic information. Made up of DNA. Skin, heart, and muscle cells all have the same instructions.

Ap Bio Chapter 1test

Judd E. Hollander



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Journal of the House of Representatives of the United States United States. Congress. House, 2003 Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the order of the House

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