

Study Guide - Biology 1320 Exam 1 Chapters 1-5

Chapter 1: Scientific Study of Life

- What are the 5 characteristics of all living creatures? Be prepared to define them and recognize examples of each. If I give you a set of conditions, can you tell me which of the 5 characteristics are appropriate?
 1. Cellular Organization: cell is the basic unit of life that encloses a variety of structures and chemicals in a fluid environment.
 2. Metabolism: how we acquire energy and how we use that energy (autotrophs and heterotrophs)
 3. Homeostasis: maintenance of internal consistency
 4. Reproduction, growth, and development: every organism becomes larger over time, and are reproduced sexually or asexually.
 5. Hereditary/Evolution: the change in the DNA of a population over time, evolution can explain similarities found among different types of organisms.
- Can you list the levels of organization from smallest to largest? Start with the atom and end with the organism.
 1. Atom
 2. Molecule
 3. Cell
 4. Tissue
 5. Organ
 6. Organ system
 7. Organism
- Define and be able to recognize emergent properties.
 - Arise at each level of biological organization
 - Something the cell wouldn't do individually but can do when supported by a group and under the right circumstances.
- Understand the basis of homeostasis. Using sweat as an example, how does sweating return body temperature to a normal range?
 - Homeostasis is simply trying to maintain a sense of "normality" or consistency
 - Maintaining relatively constant internal conditions
 - Sweating cools the temperature of your skin to keep you at a consistent body temperature, therefore regulating itself.
- Define autotrophs and heterotrophs and be prepared to use contextual clues to identify the way a given organism acquires energy.
 - Autotroph: makes own food (plants capture sunlight through photosynthesis to create energy)
 - Heterotroph: must consume something else to get energy (consumers eat other organisms)

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