

Biology IB Final Exam Review

UNIT 1: Evolution

Stromatolites: first example of life. Fossilized remainder of mats of bacteria

Phenotypes: trait

- Darwin and Wallace co-discovered evolution
 - Same trait can evolve/mutate multiple times independently

Cyanobacteria photosynthesized the early earth

Chapter 1.1**Properties of Life**

1. Order
2. Evolutionary adaptation
3. Regulation
4. Energy processing
5. Growth and development
6. Response to environment
7. Reproduction

Levels of Biological Organization

1. The Biosphere: all life on earth and all the places life exists
2. The Ecosystem: living things in a particular area, along with nonliving components that life interacts with
3. Communities: organisms in a particular ecosystem
 - a. Each form of life belongs to a specific species: a group whose members can reproduce with each other
4. Populations: individuals in a species living within a specified area
 - a. Community: set of populations in a particular area
5. Organisms: individual living thing
6. Organs: body part made of multiple tissues with specific function
7. Tissues: group of cells working together to perform a function
8. Cells: life's fundamental unit of structure and function
 - a. Single cell: (40 nanometers) performs all functions of life
 - b. Multicellular: division of labor
9. Organelles: functional components of cells E.g Chloroplast
10. Molecule: chemical structure with 2+ atoms

Emergent Properties: properties that emerge at each level that are absent at the previous

- **Systems Biology:** exploration of a biological system by analyzing interaction of parts

The Cell

Smallest unit of organization that can perform all activities required for life

Eukaryotic Cell: All plants and animals are composed of these

- Contain membrane enclosed organelles

Prokaryotic Cell: Single cell microorganisms: bacteria, archaea

- Lacks a nucleus or other membrane enclosed organelles

Mitochondrion: organelle in eukaryotes where respiration and energy production occur

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R Pring



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The Journal of Cell Biology ,1988 No 2 pt 2 of November issue each year from v 19 47 1963 70 and v 55 1972 contain the Abstracts of papers presented at the annual meeting of the American Society for Cell Biology 3d 10th 1963 70 and 12th 1972 Molecular Biology of the Cell ,2004 *Catalogs of Courses* University of California, Berkeley,1995 Includes general and summer catalogs issued between 1878 1879 and 1995 1997 *Bibliography of Agriculture with Subject Index* ,1988-10 **Index to Conferences Relating to Nuclear Science** Willie E. Clark,Carol B. Patterson,Margaret L. Pflueger,1966 **Proceedings of the Inter-American Symposium on the Peaceful Application of Nuclear Energy:**

Life sciences : general. Medicine. Biology and agriculture. Concluding remarks. List of participants ,1957

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Current Catalog National Library of Medicine (U.S.),1980 First multi year cumulation covers six years 1965 70

Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1965 **Public Health Service Publication** ,1959

Uc Berkeley Extension Cell Biology Final Exam Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Uc Berkeley Extension Cell Biology Final Exam**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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