

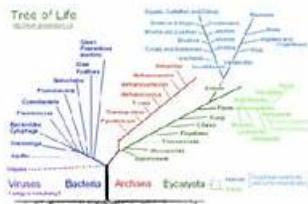
Introduction-to-Biology Braindumps Pdf - Reliable Introduction-to-Biology Test Guide

Biology Exam 1 Study Guide

Lecture 1 – Introduction to Biological Sciences

Tree of Life

- Domains
 - Eukarya → visible life
 - Split into animals and plants
 - Very small portion
 - Bacteria → single cell
 - Make up most of life's branches
 - Symbionts that evolved into mitochondria and chloroplasts were eubacteria
 - Archaea → original domain of life
 - More closely related to eukaryotes than eubacteria, first branch of life
 - Basic split between archaea and bacteria
- Candidate phyla radiation: Single species have been identified, each identifies an entire phylum which is yet to be understood - pioneer species (tree is dominated by new species that scientists have never seen before)
- Species disappearing faster than can be recovered
- Eukaryotes and archaea are most closely related branches



Destruction and Mass Extinction

- One million species face imminent extinction because of humans
- Recent past → >50% vertebrates />75% flying insects lost in the past <50 years
- Critically threatened → >40% amphibians, >30% plants/corals/sharks, >25% mammals
- Populations and extinctions have increased

Theory of Evolution

- Evolution: all life on earth evolved from a common ancestor; most properties within cells work in the same way, the change in gene distribution over time within a population
- Theory: a very well substantiated idea that explains many overlapping phenomena at once. wide-ranging, strongest. Not a hypothesis
- Darwin: species arise through random mutation and natural selection for fitness
- Evidence (fewer than 40% of Americans believe in evolution)
 - fossil record shows conservation of homologous structures
 - Molecular proof: same DNA and RNA protein in cells
 - Homologous function in hands and fins → evolved similar mechanisms in appendages
- Scopes Monkey Trial
 - Scopes taught evolution illegally: resulted in Butler Act → forbid teaching evolution in TN
- Endosymbiotic theory
 - Single composite cell of greater complexity could evolve from two or more separate simpler living cells in a symbiotic relationship

Year of Earth's History

- 1 Jan: earth formed 4.54 bya by acceleration of material from the solar nebula via gravitational collapse, conditions were incompatible with life, bombarded with asteroid-sized meteors for 800 million years
- 4 Mar: by 3.8 bya bombardment had slowed, Earth had cooled to lower temps "compatible" with life

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NEW QUESTION # 50

Glycolysis yields a net of two ATP molecules produced by phosphorylation. Which statement about the energy transformation in this process is true?

- A. Energy is destroyed.
- B. Energy is created.
- **C. Energy is transformed into a form more useful for the cell.**
- D. Energy is transformed into a long-term storage form

Answer: C

NEW QUESTION # 51

Which statement correctly describes how anionic bondforms?

- A. Two atomic nuclei fuse to form a single molecule
- B. Two atoms are attracted to a nearby hydrogen atom that binds them together
- C. Two ions share several pairs of electrons
- **D. An electron is transferred from one atom to another**

Answer: D

NEW QUESTION # 52

Which statement is true about the organisms on the vertebrate cladogram?

□

- A. Only species with hair produce amniotic eggs.
- **B. Sharks and rays have vertebrae but lack a bony skeleton.**
- C. Birds are the only species that produce eggs with shells.
- D. Amphibians are four-limbed species but lack a bony skeleton.

Answer: B

NEW QUESTION # 53

Thailand's rainforest area has decreased since the 1960s due to logging and land clearing for agriculture. Which activity would continue to have a negative effect on biodiversity?

- A. Increasing the use of sustainable technologies in Thailand
- B. Increasing the use of renewable energy sources
- **C. Increasing the human population in Thailand**
- D. Developing technologies that reduce chemical pollutants

Answer: C

NEW QUESTION # 54

A molecule does not dissolve in water and consists of glycerol covalently bound to three fatty acid tails. What is the primary function of this molecule?

- A. Catalysis of chemical reactions
- B. Genetic information storage

- C. Energy storage
- D. Cell communication

Answer: C

NEW QUESTION # 55

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