

## CONCEPT 1 – EVOLUTION

### 1. Natural Selection

- a. Major mechanism of change over time – Darwin's theory of evolution
- b. There is variation among phenotypes – genetic mutations play a role in increasing variation
- c. Competition for resources results in differential survival, with individuals with the most favorable traits surviving to reproduce offspring
- d. An adaptation is a genetic variation that is favored by selection and is manifested as a trait that provides an advantage to an organism in a particular environment.
- e. Fitness is the ability to survive and reproduce

### 2. Hardy-Weinberg Equilibrium

- a. A mathematical model used to calculate changes in allele frequency, providing evidence for the occurrence of evolution in a population.
- b. 5 conditions must be met for a population to be in HW equilibrium – conditions are seldom met
  - (1) Large population
  - (2) No migration
  - (3) No mutations
  - (4) Random mating
  - (5) No natural selection
- c. Equations
  - (1)  $p$  = the frequency of dominant alleles in a population
  - (2)  $q$  = the frequency of recessive alleles in a population
  - (3)  $p^2$  = the frequency of homozygous dominant individuals in a population
  - (4)  $q^2$  = the frequency of homozygous recessive individuals in a population
  - (5)  $2pq$  = the frequency of heterozygous individuals in a population
  - (6)  $p + q = 1$
  - (7)  $p^2 + 2pq + q^2 = 1$

### 3. Speciation

- a. An evolutionary process by which 2 or more species arise from 1 species and 2 new species can no longer breed and reproduce successfully
- b. Many mechanisms by which it can occur
  - (1) Geographic isolation
    - Species separated by physical barrier
  - (2) Reproductive isolation
    - Different behaviors limit mating
    - Different habitats limit mating
    - Different mating seasons limit mating
    - Different anatomical structures limit mating
- c. Can take place over millions of years or rapidly (after extinction events, for example)

### 4. Evidence for Evolution

- a. Fossils can be dated by a variety of methods that provide evidence for evolution. These include the age of the rocks where a fossil is found, the rate of decay of isotopes including carbon-14, the relationships within phylogenetic trees, and the mathematical calculations that take into account information from chemical properties and/or geographical data.

# Evolution And Selection Packet With Answers

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