## AP Bio Evolution Study Guide (Ch 22-25)

#### Chapter 22: Descent with Modification

→ Know the basic ideas that predated the ideas of Darwin

- Natural Theology
- Cuvier
- Lyell
- Linneaus

→ Lemarck

- Theory of Use and Disuse
- Theory of Acquired Characteristics

→ Darwin

- Voyage of the Beagle (How did this lead to his ideas regarding evolution?)
- Adaptations (What are they? How are they involved in evolution? How do they come about in a species?)
- Descent with Modification (modify preexisting structures)
- Natural Selection (Interaction of individuals/traits with environment). Know some examples (eg., finch beaks, moths)
- · Conditions necessary for natural selection

→ Evidence for Evolution

- Be able to explain how each type of evidence contributes to proving the theory of evolution.
  - Biogeography
  - Fossil Record
  - Comparative Anatomy
  - Comparative Embryology
  - Molecular Biology

Which type of evidence provides the strongest support for evolution?

#### Chapter 23: Evolution of Populations

In general, you should understand how evolution is operating on the population level. The individual organisms carry the genes that natural selection acts upon, but it is the genes of the population (gene pools) that evolve.

- → Hardy-Weinberg Equation (p² + 2pq + q² =1 and p + q = 1)
  - Red plant color is dominant in a particular species of wildflower. In a wild population,
    250 of the 5000 individual plants have white flowers.
    - From this type of question, you should be able to calculate the phenotypic and genotypic frequencies.
      - · Frequency of heterozygotes
      - Frequency of homozygous dominant/recessive

# **Evolution Study Guide Ap Biology Answers**

Yan Bai

## **Evolution Study Guide Ap Biology Answers:**

**AP Biology Study Guide** Sundar Nathan,2009-11 Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test

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