

## Chapter 8: The Origin of Species

### Section 8.1

- Know all key terms
- Be able to compare and contrast, with examples and diagrams, Directional, Stabilizing and Disruptive selections
- Be able to fully describe the importance and impact of Sexual selection
- Be able to explain the natural selective pressures involved in specific traits of organisms (i.e. acute vision of hawk; refer to table 1, p. 329)
- Be able to describe an example of cumulative selection
- Describe Genetic Drift and the impact of Bottleneck effects
- Describe an example of the impact of human actions on the evolution of a species

Questions: 1-11, p. 335

### Section 8.2

- Know all key terms
- Be able to explain, with examples, all types of Pre- and Postzygotic methods of reproductive isolating mechanisms
- Be able to compare and contrast Allopatric and Sympatric speciation

Questions: 1 – 5, p. 340

### Section 8.3

- Know all key terms
- Be able to describe, with examples, Adaptive Radiation, Divergent/Convergent/Co-Evolution

Questions: 1 – 5, 7, p. 345

### Section 8.5

- Know all key terms
- Provide examples of various Mass Extinctions and their effect on Diversification
- Be able to create a Cladogram from a given table of Morphological Data
- Be able to compare and contrast the Theories of Gradualism and Punctuated Equilibrium

Questions: 1 – 6, 8 – 9, p. 355

### Section 8.7

- Know all key terms
- Be able to explain how and why hominids evolved
- Be able to explain how human culture has been involved in our evolution

Questions 1-5, 7-9 p. 365