

## AP Biology TEST #5 – Chapters 21 – 25 REVIEW SHEET

1. The half-life of an isotope is best defined as the
  - A) time a fixed fraction of isotope material will take to change from one form to another.
  - B) age over which the isotope is useful for dating rocks.
  - C) ratio of one isotope species to another in a sample of organic matter.
  - D) None of the above.
2. For terrestrial animals and plants, the most recent mass extinction event that occurred prior to the evolution of humans took place approximately \_\_\_\_\_ million years ago.
  - A) 10
  - B) 65
  - C) 220
  - D) 400
3. One of the main factors that distinguishes the Cambrian explosion from all others is that
  - A) evolutionarily, it was the most recent explosion.
  - B) many new major groups of animals appeared at this time, but not during other explosions.
  - C) it was the time when the dinosaurs became extinct.
  - D) there was a dramatic drop in species diversity, especially among marine organisms.
4. The sudden disappearance of the dinosaurs some 65 mya may have been the result of
  - A) Earth's collision with a large meteorite.
  - B) slow climate changes due to planetary cooling.
  - C) competition from better-adapted organisms.
  - D) the rise of birds and mammals.
5. Which of the following statements about evolution is not true?
  - A) Some species living in stable environments appear to have changed very little over many millions of years.
  - B) Species have become extinct throughout the history of life.
  - C) The fossil record of trilobites provides a good example of gradual evolutionary change within a lineage of organisms.
  - D) There is no evidence in the fossil record for periods of rapid evolutionary change.
6. Evolution occurs at the level of
  - A) the individual genotype.
  - B) the individual phenotype.
  - C) environmentally based phenotypic variation.
  - D) the population.
7. What does natural selection act on?
  - A) The gene pool of the species
  - B) The genotype
  - C) The phenotype
  - D) Multiple gene inheritance systems

# Ap Biology Test Review Guide

**Kim Magloire**



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