

**OPTIONAL QUIZ # 8** THIS PAGE IS NOT PART OF THE EXAM, IT IS OPTIONAL AND CAN COUNT TOWARD YOUR TEN BEST QUIZZES

**1. Which is TRUE about primate evolution?**

- A. There was an adaptive radiation of prosimian-like primates in the Eocene of the Cenozoic
- B. Aegyptopithecus seems to be an ancestral catarrhine, an ancestor of apes and OW monkeys
- C. We can recognize the first hominoids because they have Y-5 molars, and no tails
- D. Eocene primates had some fingernails, but like modern lorises, they had claws for grooming
- E. Monkeys and apes have complete bony eye sockets in their skulls.
- F. All of these are true

**2. Which is true about the fossil called Gigantopithecus?**

- A. It was a giant ape, maybe 12 feet tall and 1200 pounds
- B. Found in the Miocene, it survived all the way until 300,000 years ago, or even more recently
- C. Some people suggest it is still alive, it may be the Yeti or Abominable Snowman or Bigfoot
- D. Like gorillas, it was a vegetarian
- E. All of these are true

**3. We used to think that the human lineage split off from the apes back in the Miocene, over 15 million years ago; why have we changed our mind about that?**

- A. Vincent Sarich showed that chimps and humans are so genetically similar that they split only 5 mya.
- B. We were mistaken in our reconstruction of the fossil "Ramapithecus", the supposed first hominid
- C. The Miocene fossil Sivapithecus turned out to be an ancient relative of the orangutang
- D. All of these are true

**4. Which is true about earlier stages of evolution and geological history?**

- A. The earth is roughly 5 billion years old
- B. The beginning of sexual reproduction greatly increased the variation found in species
- C. In the Paleozoic, about 400 mya, the first tetrapods evolved from lobe-finned fish
- D. The Tetrapods are the common ancestors of all birds, mammals, amphibians, and reptiles.
- E. All of these seem to be True

**5. Compared to reptiles, mammals:**

- A. Chew their food more
- B. Are heterodonts not homodonts
- C. Are warm blooded
- D. Have their legs more underneath their bodies
- E. Run faster
- F. All of these

**6. Which is TRUE?**

- A. Living Prosimians, like most Eocene primate fossils, have a Post Orbital Bar instead of a full bony eye socket like monkeys and apes have.
- B. The first lungs probably evolved from the swim bladders of fish
- C. the first life on earth were single celled organisms without a nucleus.
- D. Many Oligocene primate fossils have been found in the Fayum of Egypt
- E. All of these seem to be true

**7. Which is the dental formula of platyrrhines?**

- A. 2.1.3.3
- B. 2.1.2.3
- C. 3.1.3.2
- D. 2.1.2.2

**8. The pattern of the leg bones of birds, mammals, reptiles, and amphibians is:**

- A. A homology
- B. An analogy
- C. Different in each of these groups
- D. A notochord

**9. Which is true about the earth 65 million years ago, at the end of the age of dinosaurs and the beginning of the age of mammals?**

- A. the first animals with four legs appeared.
- B. the first animals with backbones appeared.
- C. ferns replaced flowering plants and trees.
- D. climates were getting warmer and wetter.
- E. a lot of species became extinct, including the last of the dinosaurs, which many scientists think was hastened by the earth being hit by a comet or asteroid or meteor.

**10. Which is TRUE about the geology and history of the earth?**

- A. The earth started out warm and has gradually cooled off over billions of years
- B. In the Paleozoic there was only one large continent, called Pangea
- C. The earth has cooled since the Mesozoic
- D. Multicellular organisms appeared before sexual reproduction did.
- E. All of these are true.

**BONUS Q: In the evolution of vertebrate animals, which came FIRST?**

- A. Backbones and ribs
- B. Legs
- C. Lungs
- D. Living on land not in sea