

OPTIONAL QUIZ # 8 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 an example for an early APE?

- A. Apidium
- B. Aegyptopithecus
- C. Proconsul

3. Which is true about the Mesozoic, the age of dinosaurs?

- A. There were already mammals in existence while the dinosaurs ruled the earth
- B. Late in the Mesozoic the climate was becoming cooler, dryer, and more temperate
- C. Late in the Mesozoic flowering plants were replacing the dominant ferns
- D. a large asteroid or comet hit the earth at the end of the Mesozoic, causing many extinctions
- E. All of these seem to be 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
- 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

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 ice cold and has gradually warmed up over billions of years
- B. At the beginning of the Mesozoic, there was only one large continent, called Pangea
- C. Continental drift is called PLATE TECTONICS, as the sliding plates carry continents.
- 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