

ANTH A105/A303 QUIZ # 6 Dr Bob Mucci SUMMER 2006 Circle the LETTER of the one best answer:

**1. 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. We now know chimps and humans are so genetically similar that they split only 5 or 6 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 a relative of the orangutang, not similar to hominids
- D. All of these are true

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

- A. There was an adaptive radiation of prosimian-like primates in the Eocene of the Cenozoic
- B. Aegyptopithecus from Egypt 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 lemurs, they had some claws for grooming
- E. Monkeys and apes have complete bony eye sockets in their skulls.
- F. All of these are true

**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 in most parts of earth
- C. Late in the Mesozoic flowering plants were replacing the dominant ferns
- D. 65 mya 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, 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. Which is TRUE about Potassium-Argon dating?**

- A. It only works on volcanic rock
- B. It can be used to date rocks that are billions of years old.
- C. It is a Chronometric dating method, not a relative dating method.
- D. The radioactive isotope of potassium breaks down into argon gas
- E. The more argon there is that is trapped in the rock, the older the rock is.
- F. All these are true.

**6. Which is TRUE about the process of fossilization?**

- A. Teeth and large bones are the body parts most likely to survive as fossils
- B. Fossils form only in warm dry situations
- C. Acidic soils are best to form and preserve fossils
- D. The Fayum is a site in Italy where many dinosaurs were fossilized
- E. All of these are true

**7. Which is TRUE?**

- A. The continents had drifted to their present position before the Age of Dinosaurs
- B. Proconsul is a fossil New World Monkey
- C. We think Primates probably first got to South America (and Madagascar) from Africa by rafting on floating vegetation
- D. Reptiles and mammals use the same muscles to run with.
- E. All of these are true

**8. 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. The Last Common Ancestor of apes and humans is still a "missing link"
- E. All of these seem to be true

**9. Which is the dental formula of catarrhines?**

- A. 2.1.3.3
- B. 2.1.2.3
- C. 2.1.3.2
- D. 2.1.2.2

**10 which is the molar tooth pattern of Hominoids?**

- A. C-6
- B. H-4
- C. Y-5
- D. Q-9
- E. K-40

FIRST NAME \_\_\_\_\_ LAST NAME \_\_\_\_\_

**Bonus question: How are the teeth of mammals different from the teeth of reptiles? (Explain the terms you use.)**