

**1. The fossil called "Lucy"**

FALL 2007 ANTH A105 QUIZ # 10 Circle the letter of the one best answer

- A. was discovered by Richard Leakey
- B. Was discovered in the 1950's
- C. is a three billion year old primitive Australopithecus
- D. Is assigned to the genus Paranthropus
- E. Is the most complete skeleton of a primitive australopithecine ever found

**2. The fossil called "Zinj"**

- A. Was found by the Leakeys
- B. was found in 1959
- C. Has a sagittal crest and large molars
- D. Was found at Olduvai Gorge
- E. your textbook assigns it to the species *Paranthropus boisei*
- F. All of the above are true

**3. The species *Australopithecus afarensis*:**

- A. Left footprints at Laetoli
- B. Includes Lucy and the First Family
- C. found and named by Don Johanson
- D. Have long curved fingers and toes
- E. All of the above are true

**4. Primitive australopithecus:**

- A. Were knuckle walkers when on the ground
- B. have proportionally longer legs than we do
- C. Have teeth just like yours in shape and size
- D. have much more sexual dimorphism than we do
- E. Include *A. afarensis* and *A. anamensis*
- F. all of the above are true

**5. Paranthropus (or robust australopithecus):**

- A. include the species: *robustus*, *boisei*, and *aethiopicus*
- B. Commonly have a sagittal crest
- C. have large flat molars worn by grinding on hard dry seeds
- D. have been found in both South Africa and eastern Africa
- E. all of the above are true

**6. Which is true about the process of DATING?**

- A. It tells us that Lucy was about 25 years old when she died
- B. Determining that one thing is older than another thru the law of superposition is called relative dating.
- C. Determining that one thing is older than another thru stratigraphy is called chronometric dating
- D. K-Ar dating can be used in South Africa to directly date the fossil-bearing breccia
- E. In eastern Africa, the only fossils that can be dated at all were the ones who died in the lava flows

**7a. Which is TRUE about the Black Skull?**

- A. it is a gracile australopithecine
- B. it is assigned to the species *Australopithecus anamensis*
- C. It was found by Don Johanson
- D. it is black because the finder painted it before publication
- E. it was a surprise because it was dated to be much older than any other known robust species

**7b. Which is the correct date?**

- A. The Paranthropus lineage became extinct about 3 mya. (Million years ago)
- B. *Australopithecus africanus* and *Paranthropus aethiopicus* lived at the same time, about 2 ½ to 3 mya
- C. Lucy lived about 1 ½ mya.
- D. The oldest species of Australopithecus is *afarensis*, who lived about 2 mya.
- E. All of these are true.

**8. What do we call the study of plants and animals after they die, the processes of mineralization and fossilization, and the relationship between the fossil record and the ancient life that it is a sample of?**

- A. Palynology
- B. Taphonomy
- C. Thermoluminescence
- D. Biostratigraphy

9/10 matching:

- \_\_\_\_\_ ***Kenyanthropus*** as old as Lucy, but not the same, according to Meave Leakey who found it in 1999
- \_\_\_\_\_ ***A. garhi*** maybe the oldest hominid, but maybe not a biped; found in 1992 by Tim White,
- \_\_\_\_\_ ***A. balrelghazalia*** 2 ½ mya, only australopithecine claimed to make stone tools; found by team under direction of Tim White, 1999
- \_\_\_\_\_ ***Ardipithecus*** as old as Lucy, but not the same, according to the French team who found it in Chad in 1995; also the only hominid found far to the west of the Great Rift Valley.

**PRINT YOUR FIRST NAME \_\_\_\_\_ LAST NAME \_\_\_\_\_**

**BONUS:** Answer on the back: Why can't the K-Ar method be applied with equal success in both South Africa and eastern Africa?