

1. Some people think that the neandertals, and the early modern humans who lived at the same time, actually were two different species; IF THIS HYPOTHESIS IS CORRECT, it would mean that:

- A. they could not have interbred and produced grandchildren
- B. there would be little variation within each species compared to the differences between them
- C. it would be easy to sort the fossils into one kind or the other, with few that are intermediate
- D. modern Europeans would have no neandertal genes
- E. All of the above would be true.

2. Which is FALSE?

- A. In the world today, shovel shaped incisors are most commonly found in modern Europeans.
- B. Chris Stringer says that the genetic evidence (“Eve”) supports his population replacement model.
- C. Milford Walpoff says the hybrid children from Portugal support his Multiregional model
- D. Evidence from fossils and stone tools supports the idea that modern humans first appeared in Africa

3. Which is FALSE about the “Eve” hypothesis?

- A. It suggests that all living humans are descended from a single woman who lived 100,000 or 200,000 years ago, and that we are not in any way descended from any other women alive then.
- B. It suggests that Africa is the human genetic homeland because African people have more genetic diversity than any other group of humans.
- C. It assumes all of your mitochondrial DNA was inherited only from your mother
- D. Mitochondria are like little parasites living in your cells, reproducing themselves using their own DNA

4. Which is true about Australia?

- A. Humans definitely lived there 500,000 years ago
- B. the first humans to get there had to cross open water, not walk on a land bridge
- C. First they lived in the interior of the continent, and only recently along the coast
- D. The famous Venus figures are all found there
- E. They lived in houses made of the mammoth bones and skins

5. The archaeological evidence for the assumption that Classic Neandertals in Europe did not suddenly become extinct upon the arrival of Cro-Magnon peoples comes from two contemporaneous tool traditions in Western Europe:

- A. Chatelperronian with Mousterian tools & Aurignacian with blade tools
- B. Magdalenian with Oldowan tools and Solutrean with Acheulian tools
- C. Zhoukoudian with blade tools and Terra Amata with Oldowan tools
- D. Dmanisi with bronze tools and La Chappelle aux Saintes with iron tools

6. The first hominids with a pronounced chin were:

- A. *Homo sapiens*
- B. *Homo heidelbergensis*
- C. *Homo erectus*
- D. *Homo habilis*

7. The function or purpose or need for a chin is:

- A. To hang the beard on
- B. As a weapon
- C. To protect against cold
- D. To preserve the space for the soft tissues under the jaw when teeth got smaller

four POINT MATCHING (each answer is used once)

We discussed four models of the origins of modern humans:

- A. Carlton Coon’s candelabra (in class, not mentioned in textbook)
- B. Milford Walpoff’s multiregional evolution (in class, and twice in the textbook)
- C. Chris Stringer’s Recent African Origin (or Out of Africa) (in class and in the textbook)
- D. the compromise model (or Mostly Out of Africa) (in class and in textbook)

Using the letters A, B, C, or D from above, which model does each statement refer to?

- 7. ___ in this old model with racist overtones, humans spread out from Africa into several geographical regions; the groups in each region became geographically and genetically isolated from each other; each evolved on its own and at its own pace, to independently become modern *Homo sapiens*.
- 8. ___ human evolution was a sequence of adaptive radiations, in which a new species evolved in only one region, and then spread out to the rest of the world, replacing other humans without interbreeding with them; it is in fact a model of cladogenesis and punctuated equilibrium; if this model is true, modern humans have no Neandertal genes.
- 9. ___ human evolution was a case of anagenesis, that is, all earlier humans gradually evolved together into modern *Homo sapiens*, aided by migrations and gene flow.
- 10. ___ in this, the most recent and now popular model, one group of humans put together the right combination of genes and culture, and spread out from their place of origin; they interbred with all the people they encountered, but theirs became the predominant physical type and culture. This did not happen all at once, but during several expansions.

PRINT NAME _____ best 10 quizzes = ____; quiz grade= ____; lowest left = ____

BONUS Q: In what way was Carlton Coon a racist?

