

Study Guide for ANTH 155 Exam Three
Section 3: Macroevolution and the Fossil Record

The test format is written paragraph/short essay answers. The instructions that will appear on the test are at the end of the guide.

All exam questions will be drawn from the lecture material and class discussion with reference to the required readings.

To prepare for the test make sure that you understand, or even better, that you can provide a written answer to the following issues/statements:

1. Compare and contrast two species concepts, or two models of the process of speciation.
2. Describe, with an example, how the convergent evolution of analogous features can confound taxonomic classification of species.
3. What are the principal derived adaptations evident in early hominid evolution? Discuss with reference to examples from the fossil record.
4. Describe the defining features of Mode 1 through Mode 4 stone tool technologies. With which hominid species are each of these technological levels most closely associated? (remember, no lists – write in prose).
5. Describe the physical features that distinguish *H. ergaster* from *H. erectus*. Do you find the argument that these should be two distinct species compelling? What are the cultural differences that distinguish *ergaster* from *erectus*.
6. Describe two key examples of modern human cultural practices or innovation that we see in the material culture left by the Neandertals. For each of your examples, provide details about the material culture, and why it represents an important threshold in recent human evolution.
7. Compare and contrast the Out-of-Africa and multi-regional models of modern human evolution. Discuss with reference to evidence from studies of modern human genetic variation, or ancient human DNA. Which model is most supported by the genetic evidence?
8. Compare and contrast the Out-of-Africa and multi-regional models of modern human evolution. Discuss with reference to examples from the fossil record. Which model is most supported by the fossil record?

EXAM INSTRUCTIONS

This is a written exam composed of paragraph/short essay questions.

You have a choice among ____ questions. Answer ____ questions only.
Each question is worth ____ marks (25% of your total grade).

Write your name and Student ID# on the top of each answer page.

Write concise paragraphs of AT LEAST three (3) full sentences.

- DO NOT USE PADDING SENTENCES like “I really liked this article” - just give me the facts as you see them.
- DO NOT USE LISTS OR BULLET POINTS.
- You are expected to use all of, and only, the space provided.
- You can and should use blank paper (or unused sections of the test sheets) to prepare your answers. Cross out any writing on the test sheets that you don't want marked.
- Write legibly - illegible writing will not be marked.
- Ignoring these instructions will result in the deduction of marks.

You have until the end of the class period to complete the exam - GOOD LUCK!