

Kentucky Class Notes

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ANT 101 O'Daniel
Fall 2009
Test 1

October 1, 2009

Film: Biological Basis for Equality (**either question 1 or 2 will be extra credit on exam)

- What does it mean when Gould says that “Evolution is family history writ large?”
 - The connections among life, how we are here, why we are here. Interrelatedness of humans with other forms of life.
- How does science create and reflect culture?
 - Instigates change through its discoveries
 - Science reflects biases
- What are the 4 general biases about nature and the way the world works?
 - The notion of progress
 - Determinism
 - Gradualism
 - Adaptationism
- What provides the raw material for natural selection?
 - Random genetic variation
- Why does Gould say that the evidence of evolution lies in imperfection?
 - Record the paths of history (panda example)
- What is punctuated equilibrium?
 - A theory in evolutionary biology which proposes that most sexually reproducing species will experience little evolutionary change for most of their geological history.
 - The theory proposes that most evolution is marked by long periods of evolutionary stability, which is later punctuated by rare instances of branching evolution.
- What are the three targets of natural selection?
 - Genes
 - Organisms
 - Species
- Where is the “cradle” of human evolution?
 - Africa
- What is biological determinism?
 - The hypothesis that biological factors such as an organism's individual genes (as opposed to social or environmental factors) completely determine how a system behaves or changes over time.