

MOLECULAR CLOCKS LAB

Name _____
Date _____

Exercise I

1. Number of amino acid differences between: Organisms A and B: 5
2. Organisms A and C: 0
3. Organisms B and C: 5
4. Which is the horse? B How do you know?

B has the most differences in the amino acids of the three organisms

5. Explanation

Evolution is the idea that within a body things change over time based on amount of time and environmental changes. The theory of evolution talks about how monkeys and humans are related which is why the amino acids in the human and gorilla are so similar.

Exercise II

1. Two most closely related species are _____wiggs_____ and _____arps_____

How do you know?

There is only a 2% difference in the two

2. Species most distant from the other three is _____chortles_____

How do you know?

Have a 6% difference from wiggs and gleeps

3. Cladogram:

1. _____Wiggs_____

2. _____Arps_____

3. _____Gleeps_____

4. _____Chortles_____

Earliest split point occurred about _____12_____ million years ago.

Middle split point occurred about _____6_____ million years ago.

Most recent split point occurred about _____4_____ million years ago.

Biology Study Guide Answers Molecular Clocks

VIRUTI SHIVAN



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Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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